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AN

ACCOUNT

OF THE

TRIGONOMETRICAL SURVEY,

CARRIED ON BY ORDER OF THE

MASTER-GENERAL OF HIS MAJESTY'S ORDNANCE,

IN THE YEARS

1800, 1801, 1803, 1804, 1805, 1806, 1807, 1808, AND 1809.

BY LIEUTENANT-COLONEL WILLIAM MUDGE,

OF THE ROYAL ARTILLERY, F. R. S.

AND CAPTAIN THOMAS COLBY,

OF THE ROYAL ENGINEERS.

VOL. III.

LONDON:

PRINTED BY W. BULMER AND CO. CLEVELAND-ROW, ST. JAMES'S;
AND SOLD BY W. FADEN, GEOGRAPHER TO HIS MAJESTY,
AND TO HIS ROYAL HIGHNESS THE PRINCE OF WALES,
CHARING-CROSS.

1811.

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PREFACE.

In the year 1800 a paper was presented to the public, through the medium of the Philosophical Transactions, giving an account of the Trigonometrical operations performed in 1797, 1798, and 1799. Before we enter on the particulars composing the body of the following work, it will be proper to take a short view of the state of this undertaking at different periods since the commencement of it, in the year 1791, to the state of it in the year 1799.

The first communication on the subject of this Survey was made to the Royal Society, and printed in their volume for 1795. In that account is given a detail of the whole of the operations previously performed for effectuating the initial parts of the Survey. These principally consisted of the measurements of the base lines on Hounslow Heath and Romney Marsh, joining the triangles proceeding from the former, to those of the late Major General Roy, at Fairlight Down, and intermediately at other stations, and measuring a base of verification on Salisbury Plain.

The second paper is found in the Philosophical Transactions for the year 1797. This contains the triangles carried on in the two previous years, from the base line on Salisbury Plain,

towards the west, and along the southern coast as far as the Land's End. It also gives an account, with all the particulars, of a Survey, carried on in Kent, with a new circular instrument of less dimension than those of the large theodolite, but of similar construction.

The third paper made its appearance in 1800, detailing the operations of 1797, 1798, and 1799. From this it will appear, that since the publication of the former account, the great triangles had been carried on northward as far as Bristol and Oxford; and also that a minute Survey of Essex had been made. Particulars of the measurement of a base line on Sedgemoor were also given, that base line being the fourth measured since the commencement of the Survey.

The fourth, and last communication to the Royal Society, was made in the year 1803. It consisted chiefly of an account of the measurement of an arc of the meridian, extending from Dunnose, in the Isle of Wight, to Clifton, in Yorkshire. The triangles necessary for ascertaining the distance between those stations were only given, that paper having been composed, principally, with a view to announce the conclusions derived from that operation.

From this sketch it will appear, that the Trigonometrical operations, from their commencement in 1791 to the present time, are not accounted for beyond those particulars which constitute a Survey of the southern coast, and as much of the interior as lie between it and the parallels of Oxford and Bristol. The present Work contains a large mass of Topographical matter, which, combined with that given in the accounts before published, comprizes the Trigonometrical Survey of almost all England, and the whole of Wales, with a part of Scotland.

The first Section contains the angles observed with the large theodolite, as well as the angles of elevation or depression at the several stations, and also the situations of those stations.

The second Section contains a short account of the measurement of a new base line on Rhuddlan Marsh, near St. Asaph, in North Wales, with the reduction of that base, and the calculation of the sides of the principal triangles. Of these triangles, those first given are made to depend on the side joining the stations Bow Brickhill and Lilleyhoe, and Lilleyhoe and Ledlington, (see the Philosophical Transactions for the year 1800, page 604), extending from thence to the north of Cambridgeshire, the last stations being Littleport in that county, and Brandon Warren, near Brandon, in Suffolk.

The triangles running up from Arbury Hill to Clifton Beacon, in Yorkshire, as given in the Philosophical Transactions for 1803, result from observations made immediately after the operations in Cambridgeshire ceased. Other triangles, also resulting from observations made in the same season, and uniting with the former on the eastern side, are given in this section. In this series, two stations will be found named Cropwell Bishop and Bottesford. These were chosen to connect the triangles with the extremeties of a base-line then intended to be measured, but since relinquished, Misterton Carr, in the north of Lincolnshire, proving to be a more proper spot for that operation: however, the triangles depending on these stations are given, many churches and objects of note having been observed from them, and their situations thereby ascertained. The junction between the triangles of this series, and those in Cambridgeshire, is effected by intermediate spires, among which Souldrope is the principal, and the distances—Souldrope Spire from Arbury Hill 146434 feet, from

Lilleyhoe 115863 feet, from Orwell 125908 feet, and from Ely Minster 196695 feet, may be considered as primary.

The triangles next in order, are those which proceed from a base line recently measured on Rhuddlan Marsh, branching off in all directions. A series extends from this base to Anglesea, thence, by Snowdon, down the western coast of Wales, by Cardigan Bay, joining, near Aberystwith, a series of triangles extending over South Wales, and proceeding from the triangles in Glocestershire, along the borders of the Severn and Bristol Channel, to St. David's Head, and thence up to this just mentioned point of junction. Another series, uniting with the former, proceeds southward from Rhuddlan Marsh, and joins the southern triangles in Glamorganshire, while, from the western side of this series, triangles unite with those in the central part of England. From this new base, triangles branch out towards the east, and unite with those proceeding westward from Misterton Carr, mutually verifying the sides of each series. Triangles are also carried on from this base through Lancashire, Cumberland, and Westmoreland, into Scotland, and uniting with another series, extending from Clifton Beacon, through Yorkshire and Northumberland, and the east part of Scotland, as far as the northern side of the Firth of Forth.

On examination, the triangles in this section will appear to have had only two angles observed in some cases. Had it been practicable, the instrument would, as heretofore, have been always taken to the third station; but the peculiar character of the country, where this omission has had place, prevented the performance of that measure. This, however, cannot, but in a very trifling degree, have affected the accuracy of the conclusions, as the proofs on the sides of several triangles so circum-

stanced, plainly shew. With an instrument, so excellent as that used in this Survey, except for the purpose of intersecting surrounding objects, it is, perhaps, not necessary tenaciously to adhere to the practice of observing the third angle of every triangle. The computed length of the base line on Rhuddlan Marsh, derived from the base on Hounslow Heath, differs only one foot from the length obtained by actual measurement; and the base on Misterton Carr, used in the series of triangles connecting it with Rhuddlan Marsh, gives a result equally consistent.

Section Third, contains the secondary triangles formed by the intersection of church steeples, and other remarkable objects, from the principal stations, amounting in number to six hundred and fourteen. Several of these are supplementary, or *proof* triangles, inserted for the purpose of evincing that, under those circumstances, the intersected objects are properly identified. The number of triangles in this Section might have been greatly increased, if scrupulous attention had not been paid to select intersections not likely to be erroneous.

The Fourth Section contains the triangles, principal and secondary, for the survey of the western counties. The first class of secondary triangles, under the head of this Section, proceeds from the side joining the station on the Quantock range of hills and Moorlynch, and is extended over a large part of Somersetshire, and the eastern part of Devon. The angles of these triangles were observed with the same care as those of the great triangles, staffs being generally erected over the stations. The large and small circular instruments were employed, the former when the station was on the ground, and the latter when observations were made from a tower.

The triangles next in succession, are those constituted for the Survey of the north of Devon. It must be remembered that, when the Survey was formerly carried on in the southern part of this county, the triangles could not be ran up to the northern parts from the intervention of Dartmoor. The triangles now in view, partly depend on the old sides in the east of Cornwall and partly on those in the north-west of Somersetshire.

The next class contains, the triangles for the Survey of Dartmoor and the south of Devon. These originate from the sides of the great triangles heretofore published in the Philosophical Transactions.

These articles are followed by the interior triangles constituted by the intersections of objects from the several stations previously mentioned, comprehending almost every steeple in the west of Somersetshire, all Devon, and the greatest part of Cornwall. To these are subjoined, first, the triangles for the Survey of Dorsetshire; secondly, for the Survey of Hampshire, part of Somersetshire, and part of Wiltshire; thirdly, for the Survey of the county of Sussex; fourthly, for the Survey of part of Surrey; fifthly, for the Survey of Middlesex and Hertfordshire; sixthly, for the Survey of part of Surrey and part of Berkshire; seventhly, for the Survey of part of South-Wales; eighthly, for the Survey of Cambridgeshire; ninthly, for the Survey of part of Bedfordshire and part of Buckinghamshire. This Section concludes with the particulars relating to the altitudes of the stations, and a general list of those altitudes alphabetically arranged. And here it is to be observed, that the altitudes of the stations enumerated in the former publication on this subject are again repeated, that all the deductions may be brought under one point of view.

It may not be improper, on this occasion, to observe that, the contents of this Section have been made subservient to a regular survey, performed by the Royal Military Surveyors, so that no doubt can be reasonably entertained of the Section being free from errors in bearings, or the identity of the consecutive intersections being certain.

Section the fifth, contains the reduction of the observations made on certain stars with the zenith sector, at Delamere Forest and Burleigh Moor, to the beginning of the year 1806. These observations thus reduced, combined with those formerly made on the same stars at Dunnose in the Isle of Wight gave 3° 57′ 13″,1 and 2° 36′ 12″, 2 for the amplitudes of the arcs respectively subtended by those stations and the one just mentioned.

The bearings of the stations connecting Burleigh Moor and Dunnose, and also the bearings of the stations, connecting Delamere Forest and Black Down, from the parallel to the meridians observed at each extremity of both arcs, are given in this section, from whence it has appeared, after applying the necessary corrections, that 1482852,5 feet is the length of the arc intercepted by the parallels of Burleigh Moor and Dunnose, and 925188,5 feet for the meridional arc comprehended by the stations Delamere Forest and Blackdown. The length of the degree of the meridian at the middle point between Dunnose and Burleigh Moor, lat. 52° 34′ 45″, derived from the data supplied in this article, is 60823 fathoms: the length of a degree at the middle point between Dunnose and Clifton Beacon, latitude 52° 2′ 19″, as derived from the former measurement, being 60820 fathoms: see the Philosophical Transactions for 1803, page 488. The close of the fifth Section, shows that the subtence of the arc on the meridian of Delamere Forest, reaching

from that station to Black Down in Dorsetshire, both in the heavens and on the earth, are consistent, or nearly so, with the celestial and terrestrial contents of the arcs between Burleigh Moor and Dunnose, the computed and observed difference of latitude between Dunnose and Delamere Forest, agreeing within a second.

The sixth Section contains the bearings and distances of the stations from the parallels to their respective meridians and perpendiculars, with the longitudes and latitudes deduced therefrom. The meridians to which the several stations have been so referred, are those passing through Greenwich, Clifton Beacon, Burleigh Moor, Delamere Forest, Moel Rhyddlad in Anglesea, and Blackdown. The directions of the meridians at these stations, have been observed at different periods in a careful manner, and the stations in the vicinity of each, have been referred to its respective meridian, and those midway between two meridians, have been referred to both.

The latitudes of Clifton Beacon, Burleigh Moor, and Delamere Forest are given as deduced from the observations made with the zenith sector at those stations, combined with the observation formerly made at Dunnose and Greenwich, taking 51° 28′ 40″ as the latitude of the latter. The latitude of Moel Rhyddlad has been found from that of Delamere Forest by computation. This section also contains the latitudes and longitudes (derived from the bearings and distances) of the most important places found in the secondary triangles given in the third and fourth Sections: like the principal stations, these have been referred to the nearest primary meridians.

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PLATES.

ACCOUNT

OF A

TRIGONOMETRICAL SURVEY.

SECTION FIRST.

ARTICLE I. *Angles of the great Triangles observed in the Years* 1800, 1801, 1803, 1804, 1805, 1806, 1807, 1808, *and* 1809.

At Arbury Hill.

Between	°	′	″	Mean.
Corley and Helkinton - -	71	0	5,75 7,5	6,5
Burrow Hill and Helkinton - -	27	3	31,25	
Bardon Hill and Helkinton -	36	45	28 34 34,75 30,75	31,75
Epwell and Helkinton - -	160	57	10,75 12 13 13,5	12,25

At Burrow Hill.

Arbury Hill and Helkinton -	143	13	50,5 52	51,25

At Helkinton.

Bardon Hill and Arbury Hill -	125	30	7 9	8
Bardon Hill and Tilton - -	50	10	48,75 47,75 43,5	46,5
Naseby and Arbury Hill - -	139	9	20	
Tilton and Arbury Hill - -	175	40	56,75 55,75 59	57,25

Between		°	′	″	Mean.
Bardon Hill and Naseby	- -	95	20	23 21,25 24	22,5
At Naseby.					
Helkinton and Tilton	- -	125	48	3,75 5,25	4,5
At Tilton on the Hill.					
Beacon Hill and Stathern Point	-	74	51	58,75 58,25 59,75 59,75	59,25
Bardon Hill and Helkinton	-	79	16	43,5	
Burrow Hill and Stathern Point	-	9	5	4,5 3,5	4
Helkinton and Bardon Hill Summer House		79	14	56,75 56	56,5
Helkinton and Naseby	- -	9	2	8,25 8,5	8,25
At Bardon Hill.					
Arbury Hill and Helkinton	-	17	44	19,75 21,25	20,5
Corley and Castle Ring	- -	59	32	32,5 32	32,25
Holland Hill and Stathern Point	-	39	39	16,25 16,75	16,5
Stathern Point and Helkinton	-	93	15	27,75 28,25	28
Corley and Helkinton	- -	56	9	34,25 34,75	34,5
Tilton and Helkinton	- - -	50	32	31,25	
At Stathern Point.					
Tilton and Bardon Hill	- -	56	44	45,25 45,25	45,25

Between		°	′	″	Mean.
Bardon Hill and Holland Hill	-	71	33	48 52 52	59,75
Cropwell Bishop and Bottesford	-	93	34	9	

At Holland Hill.

Bardon Hill and Cropwell Bishop	-	48	13	35 36,25 37,75	36,5
Bottesford and Cropwell Bishop	-	40	17	28,25 29,25	28,75
Sutton Ashfield and Lincoln Minster	-	98	5	59,25 59,75	59,5
Stathern Point and Lincoln Minster		73	30	59,25 58,75	59
Bardon Hill and Stathern Point	-	68	46	53,75 51,25 53	52,5

At Orpit.

Holland Hill and Sutton Ashfield	-	21	27	19,5 20 20,5 21 21,75	20,5
Bardon Hill and Weaver Hill	-	99	5	28 30,5 32,5	30,25
Castle Ring and Weaver Hill	-	43	2	17 14,75 13,25	15
Weaver Hill and Hathersage	-	97	49	55 56,5 57	56,25

At Castle Ring.

	°	′	″	Mean.
Between Orpit and Weaver Hill - -	25	21	43 44	43,5
The Wrekin and Weaver Hill -	105	18	58,5 58 58,5 59,5	58,75
Weaver Hill and Bardon Hill -	80	54	27,5 28,5	28
Ashley Heath and Weaver Hill -	61	9	42 43,5	42,75
Bar Beacon and The Wrekin -	89	55	47,5 48,75 49	48,75

At Bar Beacon.

Castle Ring and Bardon Hill -	74	45	31 31,5 28	30
Bardon Hill and Corley - -	48	55	50,5 49,5	50
Castle Ring and Corley - - -	123	41	18 20	19
Lyckey Hill and The Wrekin -	84	46	12,5 13,5	13
The Wrekin and Castle Ring -	69	24	29,75 32 32,5 33	32

At Horsemoor Hill.

Lidlington and Trusler Hill -	28	43	52,5 53	52,75
Trusler Hill and Hill Farm - -	77	33	58 59,5	58,75

At Lilleyhoe.

Between	°	′	″	Mean.
Lidlington and Royston - -	115	18	36,5 36,5 35	36
Bowbrickhill and Royston - -	139	18	11 15	13

At Royston.

Lilleyhoe and Lidlington - -	23	43	40,5 42 42,25	41,75
Lilleyhoe and Orwell - -	126	8	16,25 17,5	16,75
Maddingly and Balsham - -	41	12	36 31,5	33,75
Lilleyhoe and Maddingly - -	135	53	42,75 44,5 42,75 44	43,5
Balsham and Haddenham Spire -	41	11	43,25 48,25 49	46,75
Lidlington and Maddingly - - -	112	10	2,5 4,75	3,5
Lidlington and Orwell - -	162	24	39,5	
Orwell and Balsham - - -	50	58	3,5	
Lilleyhoe and Balsham - -	117	6	23 23,25	23
Lidlington and Balsham - -	153	22	57,75	

At Orwell.

Maddingly and Balsham - - -	54	0	43,25 43,5 44,75 45,75	44,5

Between	°	′	″	Mean.
Royston and Lilleyhoe - -	35	24	19,25	20
			19,5	
			20,75	
			20,75	
Maddingly and Newmarket - -	50	58	0,5	1
			1,5	
Lilleyhoe and Balsham - -	137	15	29	29
			29	
Newmarket and Balsham - -	19	7	2,5	3
			3,5	
Balsham and Royston - -	101	51	21,25	21,5
			21,75	
Lilleyhoe and Maddingly - -	168	43	36,5	37,25
			38	
At Maddingly.				
Northy and Balsham - -	96	47	57,5	58,25
			58,75	
Orwell and Balsham - -	102	57	26,25	27,75
			27,25	
			29,5	
Orwell and Haddenham -	160	14	32,75	33
			33,25	
Near Balsham.				
Haddenham and Newmarket - -	66	59	13,25	14
			13,5	
			14,75	
			14,75	
Maddingly and Haddenham - -	40	24	23,5	24
			24,75	
Orwell and Maddingly - -	23	1	49,25	
Royston and Newmarket -	157	36	0,25	1
			2	

Between	°	′	″	Mean.
Orwell and Newmarket - -	130	25	23,25 25	24
At Newmarket.				
Orwell May-pole and Royston -	13	50	33,25 33,75	33,5
Royston and Balsham - -	14	50	44 45,75 46,5	45,5
Brandon and Balsham - -	176	0	11,25 12	11,5
Brandon and Littleport -	58	55	3,5 4 5	4,25
Orwell May-pole and Royston -	13	50	33,5	
Royston and Balsham - -	14	50	45,5	
Brandon and Balsham - -	176	0	11,25 12	11,5
Brandon and Littleport -	58	55	3,5 4 5	4,25
Orwell May-pole and Littleport -	88	23	40	
At Brandon.				
Thetford and Bartenham - -	53	16	31,25 31,25 31,75	31,5
Bartenham and Newmarket -	94	39	21,75 21,75 22,25 22,75	22,25
Newmarket and Littleport - -	66	5	13,5 15 19	15,75

Between	°	′	″	Mean.
Littleport and Methwold	62	25	47 49,25	48
Methwold and Oxborough	25	4	58 58,5 59	58,5
Oxborough and Thetford	58	27	57 59	58
Methwold and Thetford	83	32	53,75	
At Clifton.				
Hathersage and Staincross	65	54	33,5 34,5	34
Hathersage and Bradfield Point	24	16	10 11 12 12,5	11,5
At Hathersage.				
Bradfield Point and Pit Hill	32	4	18,75 19,25 19,75 19,75 20	19,5
Orpit and Pit Hill	150	54	39,25 41	40
Staincross and Beacon Hill near Clifton	50	45	24,75 28,5	26,75
Orpit and Axedge	69	35	47 47,25	47
Pit Hill and Lord's Seat	51	6	3,25 3,75 5	4
Lord's Seat and Axedge	30	12	46 46,25	46

At Lord's Seat.

Between	°	′	″	Mean.
Weaver Hill and Axedge - -	28	17	50,75 52,75	51,75
Hathersage and Axedge - -	117	19	50,25 52	51
Pit Hill and Hathersage -	59	1	41 41,25 42,5 43,75	42
Hathersage and Weaver Hill -	89	1	59 59,25	59
Pit Hill and Weaver Hill - -	148	3	37,75 38 40 41 42,5	40

At Weaver Hill.

Welsh Hill and Orpit - -	172	5	36,5 37 38	37,25
Orpit and Axedge - -	89	53	37 39,25	38
Lord's Seat and Orpit - -	73	19	28 28,25	28
Castle Ring and Ashley Heath - -	64	23	4,25 5,25	4,75
Ashley Heath and Mow Copt - -	42	11	17,5 22	18,75

At Cleeve Hill.

Malvern Station and Breadon Hill -	33	44	27,5 28 28 29,5 29,5	28,5

Between	°	′	″	Mean.
Broadway and Malvern Station -	93	4	9,5	10
			10,5	
Broadway and Stow on the Wold -	49	21	57,75	
Pen and May Hill - -	82	59	35,5	37,25
			37,5	
			37,5	
			38,5	
May Hill and Malvern Station -	48	29	38,5	40,5
			39,5	
			40	
			41,5	
			42	
			42	

At Malvern Station.

May Hill and Cleeve - -	64	46	18,75	19
			19	
May Hill and Cradle Mountain -	56	8	15,5	17,25
			18	
			18	
Trelleg Beacon and Cradle Mountain -	40	14	16	17
			18,25	
Trelleg Beacon and Symmond's Hall -	34	56	38,25	
Cradle Mountain and Brown Clay Hill	84	5	30,5	32,5
			34,75	
Cradle Mountain and Stow - -	49	58	40,5	
Broadway and Cleeve - - -	27	27	35	

At May Hill.

Malvern Station and Breadon Hill -	87	1	22	22,25
			22	
			22,5	

Between	°	′	″	Mean.
Trelleg Beacon and Cradle Mountain -	49	56	23	
			23,75	24,25
			26,25	
Cradle Mountain and Malvern Station	97	43	33,75	
			34	34
			34,25	
Trelleg Beacon and Symmond's Hall -	69	12	37	
			38,5	37,75
Cleeve and Malvern Station - -	66	44	0,5	
			1	2
			4	

At Trelleg Beacon.

Cradle Mountain and May Hill -	99	37	47	
			48,25	48
			49	
Cradle Mountain and Mynydd Mane -	56	17	8	
			8,5	
			10,25	9,25
			10,75	
Dundry Beacon and Mynydd Mane -	79	23	12,5	
			13	13,5
			14,5	
Cradle Mountain and Malvern Station	83	11	44,75	
			46	45,5
Symmond's Hall and May Hill -	59	21	22	
			22,25	23
			25	
May Hill and Malvern Station - -	16	26	1,5	
			2,5	
			4	3
			4,5	
Malvern Station and Symmond's Hall	75	47	26	

At Mynydd Mane.

Between	°	′	″	Mean.
Cradle Mountain and Trelleg Beacon -	78	56	7	8
			9	
Dundry Beacon and Trelleg Beacon -	63	21	8	9
			8,5	
			9	
			10	
			10,5	
Cradle Mountain and Llangeinor Mountain	89	22	37,5	39,25
			41	
Llangeinor Mountain and Garth Hill -	37	25	37,5	
Llangeinor Mountain and Capelante -	41	35	35	36,25
			36,25	
			37	
			37	

At Garth Hill.

Llangeinor Mountain and Mynydd Mane	106	57	58	58,25
			58,5	
Llangeinor Mountain and Flatholme's Light House - - - -	152	52	33,5	34
			34,5	
Llangeinor Mountain and Ogmoor Down	51	2	31,25	32
			31,25	
			33,5	
Ogmoor Down and Duncary Beacon -	42	42	28	28,75
			28,25	
			28,75	
			30	
Llangeinor Mountain and Duncary Beacon	93	44	58	59
			58,25	
			59,75	

At Ogmoor Down.

Llangeinor Mountain and Garth Hill -	61	53	34,25	34,5
			34,75	

Between	°	′	″	Mean.
Duncary Beacon and Garth Hill -	109	40	6	6,75
			6,25	
			7	
			7,25	
Duncary Beacon and Cefn Bryn -	110	56	48	49,25
			48,25	
			50,5	
			50,75	
Cefn Bryn and Margam Down -	43	7	52,75	
Margam Down and Llangeinor -	34	21	33,75	34,25
			34,5	
Margam Down and Newton Down Signal Staff - - - -	15	44	56,5	57
			57	
			57,5	
Margam Down and the Signal Staff on Vole Vour near Neath - -	11	18	22	23,25
			22,25	
			23,75	
			25	
Margam Down and the Signal on Kilvey Hill near Swansea - -	22	33	21	22
			21,5	
			22,5	
			22,5	
Margam Down and Cefn Bryn Signal Staff	43	8	12,5	14
			13,5	
			14,5	
			15,5	
Margam Down and the Signal Staff near Cowbridge - - - -	117	25	54,5	55
			55,5	
Duncary Beacon and Parracombe -	31	4	51,25	

Between	°	′	″	Mean.
Parracombe and Hangman Hill -	15	57	35	35,25
			35	
			35	
			36,25	

At Llangeinor Mountain.

Cradle Mountain and Mynydd Mane -	42	1	13,25	14
			14,75	
Mynydd Mane and Garth Hill -	35	36	24,25	25
			26	
Flatholme's Light House and Garth Hill	13	36	8	8,25
			8,5	
Mynydd Mane and Capelante - -	71	54	46	47,5
			46,25	
			48,5	
			49,5	
Ogmoor Down and Garth Hill -	67	3	52,25	52,5
			52,75	
Ogmoor Down and Margam Down -	50	3	3	4,25
			5,5	
Margam Down and Trecastle Beacon	104	20	9	9,5
			9,5	
			10,25	
Garth Hill and Duncary Beacon - -	61	42	51,5	

At Margam Down.

Ogmoor Down and Llangeinor Mountain	95	35	22	22,5
			23	
Ogmoor Down and Cefn Bryn -	116	54	15,5	16,5
			17,5	
Cefn Bryn and Lannon - -	32	1	11	12
			13	

Between	°	′	″	Mean.
Llangeinor Mountain and Trecastle Beacon	56	39	49	59,5
			59,25	
			52	
Lannon and Trecastle Beacon - -	58	49	18	18
			18	
At Cefn Bryn.				
Ogmoor Down and Duncary Beacon -	31	35	27,25	27,25
			27,25	
Ogmoor Down and Margam Down -	19	57	51	52
			51,5	
			53,5	
Margam Down and Lannon - -	91	3	15	16,25
			17,25	
			17	
Lannon and Marros Beacon - -	57	55	37,25	38,25
			39,25	
At Marros Beacon.				
Lannon and Cefn Bryn - -	31	13	13	15
			15,75	
			16	
Lannon and Precelly Mountain -	115	22	28	29,5
			29	
			29	
			30,5	
			31	
Precelly Mountain and Highgate Mountain	83	40	18,5	20
			19,5	
			20,75	
			21,25	
Highgate Mountain and Newton Down	19	5	59,75	

At Lannon.

	°	′	″	Mean.
Between Margam Down and Cefn Bryn -	56	55	34	
			34,5	34,5
			35	
Cefn Bryn and Marros Beacon -	90	51	7	
			8,25	8
			9,25	
Margam Down and Trecastle Beacon -	56	12	9,25	
			10	10,5
			11,25	
			11,5	
Trecastle Beacon and New Inn Hill -	74	9	12,25	
			12,75	13
			13 5	
New Inn Hill and Precelly Mountain -	53	5	24	
			26	25
Precelly Mountain and Marros Beacon	28	46	24,75	
			25,75	25,25

At Precelly Mountain.

Marros Beacon and Lannon - -	35	51	6,75	
Marros Beacon and Highgate Mountain	47	19	13	
Plumstone Down and St. Ann's Hill -	20	26	6	
			5,75	6

At Plumstone Down.

St. Ann's Hill and Precelly Mountain -	140	0	42,5	
			43	42,75
Precelly Mountain and Newton Down	85	23	56,5	

At St. Ann's Hill.

Precelly Mountain and Plumstone Down	19	33	12,25	
			12,75	13
			14	

Between	°	′	″	Mean.
Plumstone Down and Newton Down -	50	45	87	
At Highgate Mountain.				
Marros Beacon and Precelly Mountain	49	0	26,25	
			27,75	27,5
			28	
Marros Beacon and Newton Down -	58	6	19,75	
			20	
			21	20,5
			21,25	
At Newton Down.				
Marros Beacon and Highgate Mountain	102	47	39	
			40,5	40,5
			41,75	
Marros Beacon and Precelly Mountain	65	7	50	
			50,75	
			52	51,5
			53,25	
Precelly Mountain and Plumstone Down	52	45	33,75	
			34,5	34,5
			35,75	
Plumstone Down and St. Ann's Hill -	74	37	37,25	
			38,5	
			40,5	39,25
			40,75	
At New Inn Hill.				
Lannon and Trecastle Beacon - -	63	13	18	
			18,5	18,25
Lannon and Precelly Mountain -	94	38	58	
			58,5	58,75
			59,5	
Trecastle Beacon and Talsarn - -	95	9	37,75	
			38	38,5
			39,5	

Between	°	′	″	Mean.
Precelly Mountain and Capel Kynon -	59	49	27,25	
			28	
			29,5	29
			30	
			30,75	
Capel Kynon and Talsarn - -	47	8	34,75	
			35,5	36
			37,25	
At Talsarn.				
Precelly Mountain and New Inn Hill -	43	49	8,25	
			9,75	9
New Inn Hill and Trecastle Beacon -	50	4	48,75	
			50	
			50,25	50,25
			51,75	
New Inn Hill and Capel Kynon -	44	38	23,25	
			24	24,25
			25,75	
Tregarron Down and Trecastle Beacon	56	46	42,75	
			43,25	43
Tregarron Down and Aberystwith Station	74	32	0,5	
			2,75	1,5
Tregarron Down and Llandowy Brevi Down	30	32	3	
			3	
			4,75	4,25
			6,25	
At Capel Kynon.				
Precelly Mountain and New Inn Hill -	90	28	19,25	
			19,5	20,25
			21,75	
New Inn Hill and Talsarn - -	88	12	59,75	

At Tregarron Down.

Between					Mean
Talsarn and Trecastle Beacon	98	53	0	}	1″
			1,75		
Plynlimmon and Aberystwith Station	44	53	31,5	}	31,5
			31,75		
Aberystwith Station and Talsarn	59	51	6,5	}	8
			7,5		
			8		
			9,75		
Plynlimmon and Llandinam Mountain	43	44	2		
Llandinam Mountain and Capellante	96	31	43,5	}	44,5
			45,75		
Talsarn and Llandowy Brevi Down	61	59	23	}	23,5
			23,5		
			24		

At Aberystwith Station.

Plynlimmon and Tregarron Down	66	50	29	}	30
			30,5		
			31		
Tregarron Down and Talsarn	45	36	53,5	}	55
			55,25		
			56		
Rhiw Mountain and Pengarn Mountain	45	23	55,75	}	56,5
			56,5		
			57		
Rhiw Mountain and Snowdon	39	44	27	}	28
			29,25		
Rhiw Mountain and Cader Idris	66	6	56		
Plynlimmon and Cader Idris	57	53	27,5		

At Llandinam Mountain.

Long Mountain and Stow Hill	58	27	19,25	}	20
			21		

Between	°	′	″	Mean.
Long Mountain and Radnor Forest -	93	14	17	18
			18,25	
			19	
Long Mountain and Arran Fowddy -	65	49	26	
Plynlimmon and Arran Fowddy -	54	55	22	
Long Mountain and Plynlimmon -	120	44	50	50,25
			50,5	
Plynlimmon and Rodney's Pillar -	115	35	24	25,5
			27	
Plynlimmon and Tregarron Down -	49	3	6,75	8
			8	
			9	
Tregarron Down and Capellante -	49	37	25,5	

At Stow Hill.

Long Mountain and The Wrekin Staff -	52	20	57	58
			57,5	
			58,25	
			59	
Brown Clay Hill and The Wrekin Staff	23	28	31,25	32
			32	
			32,75	
Brown Clay Hill and Long Mount Pole	40	7	49,75	51,25
			51,25	
			52,5	
Long Mountain and Long Mount Pole	35	41	38,75	
Brown Clay Hill and Malvern Station -	56	46	15	16
			16,5	
			16,5	
Malvern Station and Cradle Mountain -	67	53	49	50
			51	

Between	°	′	″	Mean
Long Mountain and Llandinam Mountain	67	32	18,5	
			20	20
			21	
Llandinam Mountain and Radnor Forest	51	3	11,25	
			11,75	12
			13	
Radnor Forest and Cradle Mountain -	40	54	57,5	
			57	57,25

At Radnor Forest.

Long Mountain and Llandinam Mountain	53	29	5	
Llandinam Mountain and Stow Hill -	94	9	49,5	
			50,75	50
Stow Hill and Cradle Mountain - -	120	30	47	
			47	47

At Symmond's Hall.

May Hill and Trelleg Beacon - -	51	26	3	
			4	4,25
			5,5	
Trelleg Beacon and Malvern Hill -	69	15	56,5	
			59	59
			61,5	
Trelleg Beacon and Dundry Beacon -	70	4	23	
			24,25	23,5

At Rhiw Mountain.

Llwydiart Mountain and the Signal Staff on Holyhead Mountain -	33	24	5,75	
			6,5	7,5
			10,5	
Llwydiart Mountain and Ynaliog Mountain	138	3	37,5	
			38	37,75
Ynaliog Mountain and Snowdon -	162	28	37	
			38,5	37,75

Between	°	′	″	Mean.
Llwydiart Mountain and and Bwlch Mawr	14	43	6,25	
			7	7
			7,75	
Pengarn Mountain and Snowdon -	58	14	49	
			49,5	49,5
			50	
Pengarn Mountain and Bwlch Mawr -	67	58	43	
			46,5	45,75
Pengarn Mountain and Cader Idris -	6	18	10,75	
			12	12
			13	
At Llwydiart Mountain.				
Llanelian Mountain and Moel Rhyddlad -	37	2	59	
			60	59,75
			60,5	
Rhiw Mountain and Moel Rhyddlad -	88	1	85	
			35,5	35,5
Llanelian Mountain and the Signal Staff on the Great Orme's Head -	105	49	43	
			45,5	
			45,5	45
			46	
Moel Rhyddlad and Snowdon - -	131	13	5,5	
			7,5	8
			8,25	
			10,25	
Moel Rhyddlad and the Signal Staff on Holyhead Mountain - - -	17	52	33,25	
			33,75	
			34,5	34,25
			36,5	
Moel Rhyddlad and Ynaliog Mountain -	78	18	19	
			20	19,5

Between	°	′	″	Mean.
Moel Rhyddlad and Bwlch Mawr	95	4	4,5	
			5	5
			5,5	
At Llanelian Mountain in Anglesea.				
Llwydiart Mountain and Snowdon -	7	25	39,5	
			42,5	41
Llwydiart Mountain and Llanelian Mountain	37	47	29,5	
			30,5	
			31	30,5
			31	
Llwydiart Mountain and Moel Rhyddlad	111	13	17	
			18	
			19,5	
			20	19
			20,25	
			20,5	
Moel Rhyddlad and the Signal Staff on the Skerry Island - - -	15	46	31,5	
			32	
			32,5	32
Llwydiart Mountain and the Signal Staff on Table Hill - -	20	7	30,25	
			30,75	
			31	
			32,75	31,5
			33,25	
Llwydiart Mountain and the Signal Staff on the Great Orme's Head - -	46	36	30	
			31,75	
			32	31,75
			33	

Between	°	′	″		Mean.
Llwydiart Mountain and the Signal Staff on Holyhead Mountain - -	98	31	57,25		
			58,25		
			60,25		59
			60,5		
Garreg Mountain and Llanelian Mountain	13	7	8,25		
At Moel Rhyddlad.					
Llanelian Mountain and Skerry Light-house	121	18	18		
			19		
			19		19,5
			19,5		
			21		
Llanelian Mountain and Llwydiart Mountain	31	43	42,5		
			43,5		
			44,5		44,5
			45,5		
			46		
Llwydiart Mountain and Snowdon -	24	0	54,5		
			54,5		54,75
			55		
Llwydiart Mountain and Rhiw Mountain	71	53	56,5		
			57,75		58,5
			59,25		
			60		
Llwydiart Mountain and Holyhead Mountain Signal Staff - - -	116	10	0		
			0,5		1,5
			4		
Llwydiart Mountain and Ynaliog Mountain	78	24	42		
			42,75		43
			44		

Between	°	′	″	Mean.
Llwydiart Mountain and Bwlch Mawr -	48	35	21	
			21,25	21,75
			22	
			22,75	
June 22. Pole Star at its greatest eastern elongation from the Meridian and the top of the Skerry Light House - -	42	36	57,5	
29.		37	7	4
30.			7,5	
June 23. The Pole Star at its greatest western elongation from the Meridian and the top of the Skerry Light House -	36	47	12,5	
24.			14,5	12
29.			9	

At Pengarn Mountain.

Rhiw Mountain and Snowdon - -	62	48	16	
			16,5	16,25
Rhiw Mountain and Bwlch Mawr -	36	35	43	
			43,5	43,5
			43,5	
Rhiw Mountain and Cader Idris - -	140	14	20	
			21,5	21
			22	
Cader Idris and Aberystwith Station -	111	48	50,75	
			52	51,5

At Plyntimmon.

Llandinam Mountain and Arrennig -	99	24	18	
			19	18,5
Llandinam Mountain and Cader Idris -	120	25	55,5	
			58	58
			60	

Between	°	′	″	Mean.
Llandinam Mountain and Rodney's Pillar	42	12	9	11″
			9,5	
			10,5	
			11	
			12,5	
			13	
Llandinam Mountain and Radnor Forest	16	46	0,5	1,25
			2	
Llandinam Mountain and Tregarron Down	87	12	50	51
			50,5	
			52,5	
Tregarron Down and Aberystwith Station	68	45	59	60
			60	
			60,75	
Llandinam Mountain and Arran Fowddy	92	2	8,5	9,5
			10,75	

At Long Mountain.

Cyrn y Brain Mountain and Arrennig	47	56	2	2,5
			2,75	
Cyrn y Brain Mountain and The Wrekin	93	3	52,5	53,25
			52,5	
			54,5	
Cyrn y Brain Mountain and Hawkeston Obelisk - - - - -	59	58	31,5	33,5
			34	
			35	
Stow Hill and The Wrekin - -	84	0	3	3,5
			4	
Ashley Heath and Hawkeston Obelisk -	4	44	32	32
			32	
Stow Hill and Llandinam Mountain -	54	0	22	22,75
			23	
			23	

Between	°	′	″	Mean.
Llandinam Mountain and Arrennig -	80	59	40	40
			40,25	
Llandinam Mountain and Cader Idris -	53	0	12,5	13
			13,5	
Llandinam Mountain and Rodney's Pillar	155	0	23	
Stow Hill and a very high Pole near Treginnan - - - -	37	12	11,25	12
			12	
			13	
Cyrn y Brain Mountain and Trinity Spire, Chester - - - -	19	32	56	56,5
			56,5	
			57	
Cyrn y Brain Mountain and Cader Ferwyn	26	20	52,5	52,75
			53	
Cyrn y Brain Mountain and Arran Fowddy	60	57	38	
Llandinam Mountain and Arran Fowddy	67	58	3	3,25
			3,5	
Llandinam Mountain and Radnor Forest	33	16	37,75	39
			40	

At Brown Clay Hill.

Ashley Heath and Rodney's Pillar -	64	19	8	
Ashley Heath and Long Mount Pole -	83	43	56	56
			56	
Ashley Heath and Hawkeston Obelisk -	19	10	1,75	2
			2,25	
Stow Hill and The Wrekin - -	122	50	14,5	14,5
			14,75	
Stow Hill and Long Mount Pole -	47	12	28,75	30,75
			31,25	
			32	

Between	°	′	″	Mean.
Stow Hill and Malvern Station -	89	6	54,25	55
			55,5	
Bar Beacon and The Wrekin -	68	11	15,75	

At Ashley Heath.

Weaver Hill and The Wrekin -	129	55	22,5	23
			23	
			24,5	
Weaver Hill and Mow Copt - -	45	40	37	38
			37,25	
			38	
			39,75	
Delamere Forest and Cyrn y Brain Mountain	44	30	31	32,75
			32,5	
			34,5	
Delamere Forest and Hawkeston Obelisk	80	37	19	21
			21	
			22,5	
Delamere Forest and Rodney's Pillar -	84	29	49,5	50,75
			52	
Delamere Forest and Mow Copt -	58	17	23	24,5
			24,5	
			26	
Cyrn y Brain Mountain and The Wrekin	81	36	0	1,5
			1,5	
			2,5	
Brown Clay Hill and Rodney's Pillar -	47	26	29	30,25
			31,5	
Brown Clay Hill and Hawkeston Obelisk	51	18	49,25	50
			50	
			50,75	
Brown Clay Hill and the Pole on Long Mount Forest - - -	21	27	3,5	5,75
			6,5	
			7,25	

Between	°	′	″	Means.
The Wrekin and Long Mount Pole -	15	37	25	25,25
			25,5	
At Cyrn y Brain Mountain.				
Delamere Forest and Ashley Heath -	45	50	50,5	51,5
			51	
			52,25	
			52,75	
Delamere Forest and Hawkeston Obelisk	60	26	45	45,5
			45,5	
			46	
Delamere Forest and Garreg Mountain	74	23	15,5	15,5
			15,75	
Ashley Heath and Long Mount Pole -	55	20	33,5	35,5
			36,75	
Ashley Heath and Rodney's Pillar -	62	23	3,5	4
			4,75	
Ashley Heath and Long Mountain -	68	44	34	34,5
			34,5	
			34,5	
Ashley Heath and The Wrekin -	30	28	28	30,5
			31,5	
			32	
Long Mountain and Arrennig -	78	27	45,5	46,5
			47,5	
Long Mountain and Hawkeston Obelisk	54	8	38,5	40
			40,5	
			41	
Long Mountain and Arran Fowddy -	58	48	27,5	
Long Mountain and Cader Ferwyn -	48	54	55,5	57
			57	
			59	
Snowdon and Moel Fammau - -	63	30	52,5	54
			54	
			55,5	

Between	°	′	″	Mean.
Llanelian Mountain and Moel Fammau	33	49	6	6,5
			6,5	
			7	
Llanelian Mountain and Garreg Mountain	40	12	19	19,25
			19,5	
Garreg Mountain and Arrennig -	92	33	30,5	31,5
			31	
			33	

At Llanelian Mountain in Denbighshire.

Moelfre Issa and the Signal Staff on the Great Orme's Head - -	138	45	46	47
			46,5	
			47,5	
			48	
Garreg Mountain and the Signal Staff on the Great Orme's Head - -	124	52	9,5	10,5
			10	
			12	
Garreg Mountain and Moel Fammau -	27	59	37,5	38,75
			38,5	
			40	
Arrennig and the Signal Staff on the Great Orme's Head - - -	135	0	4,5	5
			4,75	
			5,75	
Cyrn y Brain Mountain and the Signal Staff on the Great Orme's Head -	166	16	20,5	21,75
			21,5	
			23	
Llanelian Mountain and the Signal Staff on the Great Orme's Head - -	23	15	50,5	52
			52	
			52,5	
			52,5	

Between	°	′	″	Mean
Cyrn y Brain Mountain and Cader Ferwyn	25	44	41,5	43,5
			44	
			44,5	
Cyrn y Brain Mountain and Billinge Beacon	55	42	37,5	37,75
			38	

At Garreg Mountain.

Llanelian Mountain in Denbighshire and the Signal Staff on the Great Orme's Head	15	12	23	25
			24	
			26,5	
			26,5	
Llanelian Mountain in Denbighshire and Cyrn y Brain Mountain - - - -	98	23	30	31,5
			30,5	
			32	
			32	
			32,5	
Cyrn y Brain Mountain and Arrennig - - - -	52	12	57,5	59
			59,5	
			59,5	
Cyrn y Brain Mountain and Delamere Forest	62	29	12,25	13,75
			14	
			14,75	
Llanelian Mountain in Denbighshire and Moel Fammau - - - -	92	43	51,75	53
			53	
			54,25	
Llanelian Mountain in Denbighshire and Llanelian Mountain in Anglesea -	18	44	52,25	53,5
			53,5	
			54,75	
Cyrn y Brain Mountain and Gwaunysgaer Down - - - - -	132	42	9	10,75
			11	
			11,75	

Between	°	′	″	Mean.
Snowdon and Gwaunysgaer Down	51	35	9,25	
			10,75	10,5
			11	
Cyrn y Brain Mountain and Arran Fovtddy	41	30	5,75	
			6,5	7
			8,5	
Billinge Beacon and Gwaunysgaer Down	122	19	48	
			48,5	50
			50	
			53	

At Delamere Forest.

Cyrn y Brain Mountain and Garreg Mountain	43	7	32	
			32,5	33
			34	
Cyrn y Brain Mountain and Ashley Heath	89	38	37	
			38	38,5
			40	
Cyrn y Brain Mountain and Hawkeston Obelisk	63	50	20	
			21	21
			22,5	
Ashley Heath and Mow Copt	38	8	17	
			18,25	17,5
Ashley Heath and Rodney's Pillar	55	4	35,5	
Garreg Mountain and Billinge Beacon	74	56	54	
			55,5	56
			57	
			58,5	
Mow Copt and Kelsall Staff	111	32	48	
			48,5	49
			50	
Kelsall Staff and Denham Spire	140	12	4,5	
			6	6,25
			8	

Between	°	′	″	Mean.
Cyrn y Brain Mountain and Moel Fammau	20	53	56,5 58,5	57,5
Oct. 17. Pole Star at its greatest apparent western elongation and Kelsall Staff	135	8	5	
18.			6,75	8,5
19.			8,25	
21.			14	
Oct. 18. Pole Star at its greatest apparent eastern elongation from the Meridian and Kelsall Staff - - -	140	53	56,75	
19.		54	10,75	3,75
20.			2,75	
22.			4,25	
At West End of Base.				
Gwaunysgaer Down and East End of Base	20	34	1,5	
			2,5	2,5
			3,5	
Moelfre Issa and East End of Base -		75	45 16	
			17,5	17
			17,75	
Moelfre Issa and Cave Hill Signal Staff	70	51	14,5	
			15	15,5
			17	
At East End of Base.				
Gwaunysgaer Down and West End of Base	135	11	59	
			59,25	
			59,5	59,5
			59,5	
			60	
			60	
Moelfre Issa and West End of Base -		40	12 32	
			34	33

At Gwaunysgaer Down.

Between	°	′	″	Mean.
East End of Base and West End of Base	24	14	0,5	
			1,5	1,5
			2,25	
			2,5	
West End of Base and Moelfre Issa -	21	40	24	
			24,5	25
			27	
Moelfre Issa and the Signal Staff on the Great Orme's Head - -	37	42	34	
			35,5	34,75

At Moelfre Issa.

East End of Base and West End of Base	64	2	10	
			10	11
			12	
West End of Base and Gwaunysgaer Down	62	0	18,25	
			19	19,5
			20,75	
Gwaunysgaer Down and the Signal Staff on the Great Orme's Head -	117	26	10	
			10,5	11,25
			13	
Llanelian Mountain and the Signal Staff on the Great Orme's Head - -	21	49	25	
			27	26

At Burleigh Moor.

Easington and Hartlepool Signal Staff	124	53	42,5	
Easington and Danby Beacon -	40	44	47	
			50	
			51	51,5
			55	
			55	

Between	°	′	″	Mean.
Barnaby Moor Pole and Easington -	160	23	52	52,5
			53	
Barnaby Moor Pole and Roseberry Top	42	58	55	56,5
			55,5	
			57,5	
			58	
Easington and Wordeslow Hill -	131	33	54,5	56
			56,5	
			57	
At Easington Heights.				
Barnaby Moor Pole and Burleigh Moor	5	50	55	
Barnaby Moor Pole and Botton Head -	45	20	6	6,75
			7,5	
Botton Head and Loosehoe - -	26	13	22	22,5
			22	
			22,5	
			22,5	
			22,5	
Botton Head and Wordeslow Hill -	88	18	12,25	
Loosehoe and Stow Brow - -	65	0	34	36,5
			37	
			38,5	
Loosehoe and Fair Head - -	47	40	5	5,5
			5,5	
			6	
Burleigh Moor and Wordeslow Hill -	37	7	16	17
			18,25	
At Botton Head.				
Easington and Barnaby Moor Pole -	49	47	39	40,75
			41,5	
			42	
Easington and Hartlepool Signal Staff -	52	2	59	0,5
		3	1	
			2	

Between	°	′	″	Mean.
Easington and Roseberry Top -	48	52	20	21,25
			21,5	
			22,5	
Easington and Loosehoe - -	51	0	23	23
			23,25	
Loosehoe and Wilton Beacon -	62	15	1	
Loosehoe and Hambleton Down -	112	56	33,5	35
			33	
			35,5	
			36,5	
			37	
Loosehoe and Barnaby Moor Pole -	100	48	3,25	4,5
			5,5	
Wilton Beacon and Hambleton Down -	50	41	34,5	
Wilton Beacon and Hemingbrough Spire	19	20	11	11,5
			11	
			12,5	
Wilton Beacon and York Minster -	24	40	10,5	15,25
			17	
			18	
York Minster and Hambleton Down -	26	1	19	
Easington and Wordeslow Hill -	65	37	32,5	33
			33,5	
At Loosehoe.				
Botton Head and Easington - -	102	46	12	14
			13	
			13,5	
			14	
			15	
			15	
Easington and Fair Head - -	66	59	7	11,75
			11	
			13	
			16	

Between	°	′	″	Mean.
Easington and Stow Brow -	75	20	37	
			38	38
			39	
Easington and Barnaby Moor Pole -	52	41	21,25	
Wilton Beacon and Botton Head -	105	51	29,5	
Wilton Beacon and Hambleton Down -	61	14	39	
			41,5	40,25
Botton Head and York Minster -	80	41	36	
			38,5	
			40	39
			41	
Botton Head and Hambleton Down -	44	36	46	
			48	49
			53	
Wilton Beacon and York Minster -	25	9	53,5	
			56,5	56,25
			58,5	
Wilton Beacon and Hemingbrough Spire	16	5	59	
Stow Brow and Pickering Common -	33	39	41,5	
			42	42,5
			44	
Stow Brow and Kirby Underdale Station	75	30	45,5	
Botton Head and Barnaby Moor Pole -	50	4	54	

At Wilton Beacon.

Botton Head and Loosehoe - - -	11	53	29	
			28	28,5
Loosehoe and Hambleton Down -	34	0	15	
			16	
			17,5	16,75
			18,5	

Between	°	′	″	Mean
Hambleton Down and Botton Head -	22	6	50	51,5
			50	
			51,5	
			51,5	
			52	
			53,5	
Botton Head and Hemingbrough Spire	126	5	49,5	51,5
			50,75	
			51,5	
			52	
Botton Head and York Minster -	75	45	14	15
			14,5	
			15	
			15,5	
			16	
Hunsley Beacon and Hemingbrough Spire	58	16	36,5	37,75
			39,5	
Hunsley Beacon and York Minster -	108	37	9	10,25
			9,5	
			10	
			12,5	
Loosehoe and York Minster - -	87	38	40	42,25
			43	
			43,5	

At Hunsley Beacon.

Crowle and Wilton Beacon - -	113	21	8,5	12,25
			14	
			15	
Wilton Beacon and York Minster -	32	10	57	58,75
			59	
			59,5	
			60	
Crowle and York Minster - -	81	10	11,5	12,75
			14,5	

Between	°	′	″	Mean.
Crowle and Hemingbrough Spire –	44	58	18	20,25
			20	
			23	
Wilton Beacon and Hemingbrough Spire	68	22	49	50,25
			51,5	

At Crowle.

Brayton Spire and Hunsley Beacon –	74	48	16,5	18,5
			18	
			19	
			20,5	
Hemingbrough Spire and Hunsley Beacon	67	54	1	2,25
			2	
			2	
			2,5	
			3,5	
Gringley and Clifton – –	46	54	33,5	35,5
			33,5	
			34	
			36	
			37,5	
			38	
Brayton Spire and Clifton – –	85	11	1,25	2,5
			2	
			2	
			4,75	

At Staincross Heights.

Hathersage and Holme Moss – –	65	51	1,75	2,5
			2,5	
			3	
Hathersage and Bradfield Point –	8	48	40,75	42,75
			42	
			45,5	

Between	°	′	″	Mean.
Ledstone Beacon and Bradfield Point -	167	52	33,75	
			34,75	34,75
			35,5	
Ledstone Beacon and Holme Moss -	135	5	5,5	
			6,5	7
			9,5	
Hemingbrough Spire and Holme Moss	163	56	0,25	
At Boulsworth Hill.				
Ingleborough and Bleasdale Forest -	45	51	56	
			56,5	
			56,5	56,5
			57	
Ingleborough and Pendle Hill - -	39	22	46,75	
			47,25	
			49,25	48,25
			49,75	
Ingleborough and Great Whernside -	36	31	2,5	
			3	
			3	3
			3,75	
Wittle Hill and Bleasdale Forest - -	76	12	11	
			14,75	12,75
Wittle Hill and Holme Moss -	57	44	10,5	
			11,5	11,75
			13,5	
Wittle Hill and Pendle Hill - -	82	41	12,75	
			17,75	17,5
			21,75	
Rumbles Moor and Great Whernside	51	53	32,5	
			38,75	35,75
Rumbles Moor and Pendle Hill -	127	47	25,25	
			28	26,75

At Ingleborough.

Between	°	′	″	Mean.
Black Comb and Helvellin Mountain -	35	15	14,5 16,5	15,5
Black Comb and Coniston Fell -	16	9	33,5 35,75 38,75	36
Black Comb and The Calf - -	61	35	32,25 34	33
Black Comb and Bleasdale Forest -	71	49	42 42,75 45,25	43,5
The Calf and Helvellin Mountain -	26	20	17 19,5	18,25
The Calf and Coniston Fell - -	45	25	55,75 57,75	56,75
The Calf and Shunnor Fell - -	43	31	18,75 19,25	19
The Calf and Great Whernside -	109	42	5 10	7,5
Boulsworth Hill and Bleasdale Forest	54	11	28,5 29,75 29,75 30,75	29,75
Boulsworth Hill and Great Whernside	62	41	5,5 6,5 9,25 10	7,75
Great Whernside and Pennigant Mountain	5	33	15 17	16

At Rumbles Moor.

Hambleton Down and Black Hambleton	6	11	3,75 7 9,25	6,75

	°	′	″	Mean.
Between				
Hambleton Down and Great Whernside	67	17	43	
			48,5	44
			44,5	
			44,5	
Hambleton Down and York Minster -	36	2	19,5	
			21	20,25
Boulsworth Hill and Pendle Hill -	20	24	4,75	
			7,25	6
Boulsworth Hill and Holme Moss -	57	26	31,75	
			32	32
Boulsworth Hill and Great Whernside -	95	57	49,75	
			49,75	
			50,75	50,25
Ledstone Beacon and Holme Moss -	72	16	30,5	
			33	31,75
Great Whernside and Holme Moss -	158	24	15,5	
			18,75	19,5
			22,5	

At Ledstone Beacon.

Rumbles Moor and Hemingbrough Spire	158	23	6,75	
			7,5	
			9	9
			12,75	
Rumbles Moor and York Minster -	103	17	40	
			43,5	41,75
Staincross Heights and Hemingbrough Spire	120	9	9,5	
			9,75	
			10,5	10,5
			12,25	
Hambleton Down and Hemingbrough Spire	84	34	0,75	
Holme Moss and Hemingbrough Spire	143	16	32,25	
			35	33,5
Hambleton Down and Black Hambleton	2	49	58,25	

At Black Hambleton.

Between	°	′	″	Mean.
Rumbles Moor and Great Whernside	31	38	35,75 35,75 36,75 38,75	36,75
Great Whernside and Water Crag -	32	56	48,25 52,5 54	51,75
Hambleton Down and Water Crag -	122	11	25,25 30,25	27,75
Hambleton Down and Botton Head -	118	53	1,75 3,25 3,75 4,75 4,75 5	4

At Hambleton Down Station.

Ledstone Beacon and Brayton Spire -	16	43	17,5 18,75 24,5 24,75	21,25
Ledstone Beacon and Hemingbrough Spire	25	44	0,25 2,25	1,25
Hemingbrough Spire and Wilton Beacon	30	46	30,5	
Black Hambleton and Botton Head -	42	55	24,25 24,75	24,5
Botton Head and Wilton Beacon -	107	11	36,5	
Wilton Beacon and York Minster -	31	28	23,5 25	24,25
Rumbles Moor and York Minster -	62	11	40,25 41,75	41
Black Hambleton Down and Rumbles Moor	116	12	53,5 56,75 61,75	57,25

Between	°	′	″	Mean.
Ledstone Beacon and Rumbles Moor	39	9	26	28″,5
			27,25	
			27,5	
			33,5	
Black Hambleton Down and Great Whernside - - - -	82	56	27,75	29,5
			31,5	
Black Hambleton Down and Wilton Beacon	150	7	0	2,5
			1	
			6,5	
Black Hambleton Down and Ledstone Beacon - - - - -	155	22	23	24,5
			25,75	

At Brandon Down.

Botton Head and Black Hambleton -	15	36	47	50
			53	
Botton Head and Wordeslow Hill -	77	58	42,75	43,75
			43,25	
			44,75	
Water Crag and Burleigh Moor -	102	17	33	33,75
			34,5	
Water Crag and Black Hambleton -	67	43	27,5	
Burleigh Moor and Wordeslow Hill -	59	1	30,75	31,5
			30,75	
			32	
			32,75	
Pontop Pike and Wordeslow Hill -	81	21	39,5	42,75
			43,25	
			45,25	
Collier Law and Wordeslow Hill -	141	40	29	31,5
			30,75	
			32,25	
			34,5	

Between	°	′	″	Mean.
Pontop Pike and Collier Law -	60	18	49,25 51,25 52	51
Water Crag and Collier Law -	57	0	23 24,25 24,75 25,25	24,25
Black Hambleton and Botton Head -	15	36	47 53	50
At Heswell Hill.				
Cyrn y Brain Mountain and Delamere Forest	74	28	39,25 39,5	39,5
Delamere Forest and Billinge Beacon -	61	10	54,5 54,75 56 57,75	55,75
Billinge Beacon and Go Hill - -	26	17	27,75 30,25 32,75	30,25
Cyrn y Brain Mountain and Everton Flagstaff - - - -	147	48	43,5 42,5 47,25	44,25
Delamere Forest and Everton Flagstaff	73	20	6 7,75	7
Ormskirk Spire and Everton Flagstaff -	12	14	11 17,75	14,5
Everton Flagstaff and the Landmark with a Vane near Formby - -	39	34	2,75 5,5 8,75	5,75

Between	°	′	″	Mean.
Everton Flagstaff and the Landmark without a Vane near Formby	34	46	43,5 45,75	44,5
At Belle-field Hill.				
Billinge Beacon and Heswell Hill	65	49	36,25 36,5 40,25 41	38,5
Billinge Beacon and Rivington Hill	35	44	0,25 0,25 2,25	1
Delamere Forest and Billinge Beacon	126	53	15,25 19,25 17,75 20	18,25
At Billinge Beacon.				
Cyrn y Brain Mountain and Delamere Forest	34	18	45,75 46 51,25	47,75
Belle-field Hill and Delamere Forest	24	5	14 16 18,5	16,25
Delamere Forest and Mow Copt	34	1	7 7,5 9,5 9,5 10	8,75
Rivington Hill and Knoll Hill	19	11	0 1,5 1,75 2,75 5,25 6 6,25	4

Between	°	′	″	Mean.
Delamere Forest and Rivington Hill -	132	2	19,5	
			20,5	21,5
			20,75	
			24,5	
Belle-field Hill and Rivington Hill -	107	57	1,5	
			1,75	2,75
			4,75	
Go Hill and Delamere Forest - -	119	41	22,5	
			23,5	
			24,5	25
			26,5	
			28	
Rivington Hill and Bleasdale Forest -	86	33	51,5	
			51,5	
			54,5	54,25
			56,75	
			57,5	
Go Hill and Rivington Hill - -	108	16	13	
			15	
			16,5	15,25
			17,25	
Rivington Hill and the Landmark with a Vane near Formby - -	125	22	6,5	
			7	8
			9,5	
Rivington Hill and the Landmark without a Vane near Formby - -	125	28	5,5	
			9,75	7,75
			10	
Belle-field Hill and Everton Flagstaff -	89	18	48	
			49,25	48,5
Delamere Forest and Heswell Hill -	56	47	6	
			8,5	7,25

At Go Hill.

Between	°	′	″	Mean.
Billinge Beacon and Heswell Hill -	90	48	9,25	10,75
			11	
			12	
Billinge Beacon and Rivington Hill -	41	51	22	23,75
			24,25	
			24,75	
Billinge Beacon and Chorley Down -	51	3	27,75	30,25
			29,25	
			29,75	
			32	
			32,25	
Billinge Beacon and Bleasdale Forest -	90	14	43,75	44,75
			44,25	
			46,25	
Billinge Beacon and Beryl Hill - -	131	34	46,25	49,5
			50	
			50,5	
			50,5	

At Knoll Hill.

Wittle Hill and Billinge Beacon -	76	45	19,75	23,5
			24,5	
			26,5	
Wittle Hill and Rivington Hill - -	56	46	54,75	57,25
			56	
			58,25	
			60	

At Wittle Hill.

Billinge Beacon and Knoll Hill -	98	54	55,5	58,5
			58	
			57,75	
			58,75	
			62	

Between	°	′	″	Mean.
Billinge Beacon and Mow Copt -	62	46	17,5 18,5 20,75	19
Billinge Beacon and Bleasdale Forest -	80	23	5,5 6,5 7 10,75	7,5
Billinge Beacon and Chorley Down -	30	43	16,75 18 20,25 21,25	19
Billinge Beacon and Rivington Hill -	16	41	44 45 45,5	45
Pendle Beacon and Bleasdale Forest -	34	46	30 31,5 34,5	32
Pendle Beacon and Boulsworth Hill -	37	17	21,5 21,5 22,5 26,75	23
Boulsworth Hill and Holme Moss -	87	16	40,25 40,5 41 42,75	40,75
Axedge and Holme Moss - -	37	7	29,5	
Axedge and Mow Copt - -	20	22	26,75	
Billinge Beacon and St. Mary's Spire, Manchester - - - -	62	44	7,25 14,75	11
At Axedge.				
Weaver Hill and Mow Copt - -	67	17	54,5 57,5 59,75	56

Between	°	′	″	Mean.
Mow Copt and Wittle Hill - -	103	0	32	

At Beryl Hill.

Black Comb and Bleasdale Forest -	94	28	39,75	40,25
			40	
			41,25	
Go Hill and Ashurst Beacon - -	16	4	39,25	40
			40	
			40,5	
Go Hill and Bleasdale Forest - -	91	29	53	55,5
			58	
Go Hill and Billinge Beacon - -	14	24	28	30,75
			33,5	

At The Calf.

Ingleborough Hill and Black Comb -	95	56	11,75	12,25
			12,25	
			12,25	
			12,5	
Black Comb and Helvellin Mountain -	41	19	32,25	33
			34	
Cross Fell and Helvellin Mountain -	63	59	19	16
			17	
			11,75	
Ingleborough Hill and Shunnor Fell -	72	31	15	16
			16,25	
			17	
Black Comb and Lower Top of Sca-Fell	23	49	59,75	
Cross Fell and Shunnor Fell - -	86	13	36	39,25
			39,25	
			42,75	
Penrith Beacon and Cross Fell - -	26	5	54,75	56
			55,25	
			57,75	

Between	°	′	″	Mean.
Black Comb and Coniston Fell - -	13	22	35	37
			36	
			40	
Penrith Beacon and High Pike -	19	31	4,25	5,25
			4,75	
			7	
At Black Comb.				
Ingleborough Hill and Bleasdale Forest	30	5	29,75	35
			36	
			36,5	
			37,75	
Ingleborough Hill and The Calf - -	22	28	15	19
			19,75	
			19,75	
			21	
Ingleborough Hill and Helvellin Mountain	65	15	42,75	43,5
			43,5	
			44	
Ingleborough Hill and Coniston Fell -	52	11	24,5	26
			24,5	
			27,5	
			27,5	
Ingleborough Hill and Lower Top of Sca-Fell	81	25	35,5	
The Calf and Coniston Fell - -	29	43	4,75	7
			5,5	
			6,5	
			8,25	
			9	
North Berule and Snea Fell, in the Isle of Man	2	28	48,75	49
			49,25	
Bleasdale Forest and Bodafon Fire Beacon in Anglesea - - -	83	14	33,5	
Bleasdale Forest and the Top of the Rivel Mountain in Caernarvonshire - -	78	25	7,5	

At Scilly Bank.

Between	°	′	″	Mean.
Black Comb and Dent Hill - -	13	2	45	45,75
			44	
			46	
			46,5	
			47	
North Berule and Snea Fell - -	0	23	11	13
			15	
Dent Hill and Crif-Fell - -	148	26	18,5	17
			18,5	
			14,75	

At Dent Hill.

Black Comb and Scilly Bank - -	163	27	31,25	33
			33,25	
			34,75	
Black Comb and Sca-Fell, highest top -	52	17	49	51
			52	
			53,25	
The two summits of Sca-Fell - -	3	3	48,5	49,25
			49,75	
			50,25	

At Wordeslow Hill.

Brandon Down and Pontop Pike -	38	50	55,5	58
			56,25	
			56	
			57	
			61	
			61,25	
Brandon Down and Collier Law -	19	6	42	42,25
			42,5	
Brandon Down and Hedgehope -	91	29	18,5	20,75
			20,5	
			22	
			22	

Between	°	′	″	Mean.
Brandon Down and Flagstaff on Sherf Hill	76	45	5 7	6″
At Pontop Pike.				
Wordeslow Hill and Simonside Hill -	111	2	55,25 57,5 58,75 58,75	57,75
Wordeslow Hill and Brandon Down -	59	47	18 19 20 21,75	19,75
Collier Law and Brandon Down -	74	53	55,5	
Wordeslow Hill and Signal Staff on Marston Hill near Sunderland - -	80	9	48 52	50
At Collier Law.				
Wordeslow Hill and Simonside Hill -	75	12	27 27,5 28,25 30	28
Pontop Pike and Brandon Down -	44	47	7,75 7,75 8,25 10,75 11,5 13	10
Wordeslow Hill and Pontop Pike -	25	34	17,25 19 20,75	19
Cross Fell and Kilhope Law - -	21	34	43 43,5 44 44,5 45,75	44

Between	°	′	″	Mean.
Cross Fell and Water Crag - -	64	2	0 0,25	0′
Cross Fell and The Cheviot - -	95	1	9,75 10,75 13,5	11,25
Cross Fell and Simonside Hill - -	103	33	19,75 24 24,5	22,75

At Water Crag.

Cross Fell and Collier Law - -	52	19	52,5 53 54,5 54,75	53,5
Black Hambleton and Great Whernside	62	22	45,5 47,5	46,5
Black Hambleton and Brandon Down -	66	3	10,25 13	11,5
Collier Law and Helvellin Mountain -	93	3	8,5 10,5	9,5
Collier Law and Kilhope Law -	28	17	50 50,25 52,5	50,5
Cross Fell and Shunnor Fell - -	93	12	25,25 28,25	26,75
Shunnor Fell and Great Whernside -	61	1	26,5 28,5 30	28,5

At Cross Fell.

Water Crag and Helvellin Mountain -	99	59	21 23	22
Collier Law and The Cheviot - -	62	47	30,25 34,75	32,5

Between	°	′	″	Mean.
The Calf and High Pike - - -	87	59	9,25 11,5	10,5
The Calf and Helvellin Mountain -	57	48	21,25 27,5	24,5
Water Crag and Shunnor Fell -	15	35	33,75 36,75 37,75	36
Skiddaw and High Pike - - -	8	3	8,5 9,75	9
The Cheviot and Wisp Hill - -	39	15	47,75 48,5 50	48,75
The Cheviot and Simonside Hill -	13	11	5,75 6 9,25	7
At High Pike.				
Cross Fell and Wisp Hill - -	85	1	54,5 56,25	55,5
Cross Fell and Crif-Fell - -	144	22	9,5 11,75	10,5
At Alnwick Moor.				
Rufflaw and Simonside Hill - - -	40	34	52,25 53,75 55	54
The Cheviot and Rufflaw - -	106	58	54,5 55,75 56,5	56
At Rufflaw.				
Collier Law and Simonside Hill -	103	32	28 31,75	30
The Cheviot and Collier Law - -	124	36	49,5 50	49,75

Between	°	′	″	Mean.
Alnwick Moor and The Cheviot - -	38	55	41,25	
			41,25	42
			42,75	
			42,75	
Alnwick Moor and Simonside Hill -	60	0	5	
			5,5	5,5
			6,25	
Collier Law and Pontop Pike - -	14	52	49,5	51,5
			53,5	
At Crif-Fell.				
Scilly Bank and Skiddaw - -	38	11	47,75	48
			48,25	
Cross Fell and Wisp Hill - -	61	49	33,75	
			37	36
			37,25	
Wisp Hill and Queensberry Hill -	44	6	37	
			39	39,75
			43	
Cross Fell and Helvellin Mountain -	29	52	15	
			20,5	19
			21,75	
Skiddaw and Dent Hill - -	33	24	18,5	
Skiddaw and High Pike - -	10	37	34,25	35
			35,5	
Cross Fell and Skiddaw - -	26	36	10,25	
			11,25	11,25
			12	
At Wisp Hill.				
The Cheviot and Cross Fell -	87	14	7	9
			10,75	
The Cheviot and Sayrs Law - -	50	36	13,25	
			16,25	16
			18,75	

Between	°	′	″	Mean.
The Dunrigs and Sayrs Law - -	39	42	50,5	
			50,5	
			53,5	52,5
			56	
The Cheviot and Crif-Fell - -	160	55	36,75	
			38,75	38,75
			40,75	
Crif-Fell and Queensberry Hill -	41	42	31,25	
			34,5	33,75
			35,5	
At Sayrs Law.				
Wisp Hill and The Cheviot - -	55	50	17,25	
			17,25	
			18,5	18,25
			20	
Wisp Hill and The Dunrigs - -	30	1	38	
			39,25	
			40	39,5
			41,25	
The Cheviot and East Lomond Hill -	178	40	19,25	
			20,5	
			21,75	22,25
			22	
			27,25	
The Cheviot and Mordington Hill -	44	34	25,75	
			27	27,25
			28,75	
Lighthouse on the Isle of May and Light-house on Inch Keith - -	64	55	17,25	
			21,5	19,5
Lighthouse on the Isle of May and Light-house on Leith Pier - - -	75	4	33,5	
Lighthouse on the Isle of May and Kirk Gate Spire, Leith - -	76	25	21	

At Lumsdane Hill.

Between	°	′	″	Mean.
Sayrs Law and Blackheddon -	107	25	26,25	
			28,25	"
			29,75	29,5
			30	
			33,5	
Sayrs Law and East Lomond Hill -	43	48	40	
			42,25	42
			43,75	
Largo Law and Sayrs Law - -	52	11	52,5	
			53,75	
			55	55,5
			57,75	
			58,75	
Sayrs Law and West Lomond Hill -	42	18	9,5	
			10	11,5
			15,25	
The Cheviot and Blackheddon -	25	40	40	
			45,75	44
			46,5	

At Mordington Hill.

The Cheviot and Sayrs Law - -	89	34	0,25	
			3,75	2,75
			4,25	
The Cheviot and Blackheddon -	32	42	59	
			59,5	
			58,5	
			60	60,25
			60,5	
			60,75	
			63,5	
Blackheddon and Sayrs Law - -	122	17	2	
			3,5	3
			3,75	

At Blackheddon.

Between	°	′	″	Mean.
Lumsdane Hill and The Cheviot -	112	24	35	
			35,5	
			37	37,25
			38	
			41	
Mordington Hill and The Cheviot -	117	9	53	
			59	58,25
			62,5	
The Cheviot and Sayrs Law - -	79	15	28,5	
			28,5	29
			30	
The Cheviot and Simonside Hill -	34	20	49	
			51,5	
			55	53
			55,75	

ART. II. *Angles of Elevation or Depression of the several Stations in the preceding Article; also the Angles of Elevation of several remarkable Hills or Mountains, observed in the Trigonometrical Survey of* 1800, 1801, 1803, 1804, 1805, 1806, 1807, 1808, *and* 1809.

At Holland Hill.

The ground at		′	″
Stathern Point - -	*depr.*	5	15
Sutton Ashfield Station -	*elev.*	7	12
Orpit Heights - -	*elev.*	12	0
Bardon Hill - -	*elev.*	2	35

At Orpit Heights.

Hathersage - -	*elev.*	6	18
Sutton Ashfield Station -	*depr.*	24	0
Holland Hill - -	*depr.*	24	50
Weaver Hill - -	*elev.*	3	22
Bardon Hill - -	*depr.*	13	40
Castle Ring - -	*depr.*	22	15

At Castle Ring.

The ground at		′	′
Axedge - -	*elev.*	5	54
Brayding Hill, N. Wales -	*depr.*	11	50
The Wrekin - -	*elev.*	3	12
Weaver Hill - -	*elev.*	4	5
Orpit Heights -	*depr.*	5	30
Bar Beacon - -	*depr.*	7	48
Red Clay Hill - -	*elev.*	7	9
Bardon Hill - -	*depr.*	6	48

At Lilleyhoe.

Tharfield - -	*depr.*	6	19
Kinsworth - -	*elev.*	9	50

		°	′	″
The ground at				
Bowbrickhill -	*depr.*	7	45	
Lidlington - -	*depr.*	16	0	

At Royston.

Lilleyhoe - -	*elev.*	1	39	
Lidlington - -	*depr.*	7	57	
Tharfield - -	*elev.*	56	33	
Orwell - - -	*depr.*	18	27	
Maddingly - - -	*depr.*	17	33	
Top of Ely Minster Steeple	*depr.*	14	24	
Top of King's College Chapel	*depr.*	17	45	
Top of the Vane in the midst of the Trees on Gog Magog Hills - -	*depr.*	11	42	

At Orwell.

Top of Tharfield Church Tower	*elev.*	17	41	
Royston - -	*elev.*	10	18	
Balsham Church Tower -	*elev.*	3	15	
Balsham Station - -		0	0	
Maddingly Station -	*depr.*	10	18	
Lilleyhoe - -	*elev.*	3	6	

At Maddingly.

Tharfield - - -	*elev.*	11	2	
Orwell - -	*elev.*	4	31	
Balsham - -	*elev.*	5	18	
Haddenham - -	*depr.*	20	25	

At Balsham.

Tharfield - -	*depr.*	5	12	
Newmarket Station -	*depr.*	6	51	

At Brandon.

Methwold - -	*depr.*	8	30	
Little Port - -	*depr.*	10	36	
Ely Minster Steeple, Top of	*depr.*	0	57	
Newmarket - -	*depr.*	0	24	
Bartenham -	*depr.*	0	11	
Thetford - -	*depr.*	2	37	
Oxborough - -	*depr.*	4	30	

At Clifton Beacon.

The ground at				
Hathersage -	*elev.*	29	12	
Bradfield Point -	*elev.*	28	10	
Staincross Heights -	*depr.*	1	45	
Gringley Beacon -	*depr.*	13	40	
North end of the Base } Misterton	*depr.*	32	57	
South end of ditto } Carr.	*depr.*	28	51	

At Hathersage.

Orpit Heights - -	*depr.*	20	27	
Ravage Top - -	*depr.*	11	1	
Lord's Seat - -	*elev.*	23	45	
Black-kilder Hill -	*elev.*	33	9	
Pit Hill - -	*elev.*	23	51	
Bradfield Point - -	*depr.*	14	12	
Staincross Heights - -	*depr.*	38	7	

At Lord's Seat.

Weaver Hill - -	*depr.*	26	27	
Ravage Top - -	*depr.*	28	29	
Axedge - -	*depr.*	5	26	
Pit Hill - -	*depr.*	4	32	
Hathersage - -	*depr.*	29	48	
Black-kilder Hill -	*elev.*	56	30	

At Weaver Hill.

The Wrekin - -	*depr.*	11	24	
Castle Ring - -	*depr.*	20	8	
Bardon Hill - -	*depr.*	17	26	
Orpit Heights - -	*depr.*	13	21	
Barren-Edge - -	*elev.*	2	14	
Pit Hill - -	*elev.*	0	30	
Black-kilder Hill - -	*elev.*	12	51	
Axedge - -	*elev.*	18	56	
Mow Copt - -	*depr.*	10	51	
Ashley Heath -	*depr.*	21	15	
Lord's Seat - -	*elev.*	7	45	

At Cleeve.

Malvern Hills, highest point	*elev.*	3	17	
Breadon Hill - -	*depr.*	11	0	
Broadway Beacon -	*depr.*	7	30	
Stow on the Wold - -	*depr.*	19	28	

The ground at		
May Hill - -	*depr.*	11 15

At Malvern Station.

Cradle Mountain, Wales	*elev.*	5 30
Brown Clay Hill - -	*depr.*	0 20
Broadway Beacon -	*depr.*	18 36
Breadon Hill (Building)	*depr.*	26 45
Cleeve Hill -	*depr.*	17 20
May Hill - - -	*depr.*	23 30

At May Hill.

Malvern Station - -	*elev.*	11 12
Breadon Hill (Building) - -	*depr.*	7 38
Broadway Beacon -	*depr.*	8 56
Cleeve Hill - - -	*depr.*	3 57
Symmond's Hall - -	*depr.*	12 15
Trelleg Beacon	*depr.*	4 6

At Trelleg Beacon.

Mynydd Mane - -	*elev.*	14 45
Cradle Mountain -	*elev.*	37 6
Symmond's Hall -	*depr.*	17 25
May Hill - -	*depr.*	8 2

At Mynydd Mane.

Capellante - -	*elev.*	16 3
Beacon of Brecknock	*elev.*	32 39
Cradle Mountain -	*elev.*	28 0
Trelleg Beacon - -	*depr.*	26 51
Tymbarlum Mountain	*depr.*	35 54
Garth Hill - - - -	*depr.*	32 0
Llangeinor Mountain - -	*elev.*	1 56
Dundry Beacon - -	*depr.*	29 3

At Garth Hill.

Capellante - - -	*elev.*	29 18
Beacons of Brecknock -	*elev.*	41 39
Cradle Mountain -	*elev.*	24 18
Mynydd Mane -	*elev.*	21 27
Dunkery Beacon	*elev.*	5 4
Ogmoor Down - -	*depr.*	35 39
Llangeinor Mountain	*elev.*	35 35

At Ogmoor Down.

The ground at		
Llangeinor Mountain - -	*elev.*	51 9
Garth Hill -	*elev.*	26 9
Dunkery Beacon -	*elev.*	33 45
Cefn Bryn - -	*depr.*	1 51

At Llangeinor Mountain.

Margam Down - -	*depr.*	34 24
Trecastle Beacon	*elev.*	20 3
Cradle Mountain -	*elev.*	5 30
Pen y Voel - - -	*depr.*	8 57
Mynydd Mane - -	*depr.*	17 54
Garth Hill - - -	*depr.*	46 57
Capellante - -	*elev.*	15 41
Dunkery Beacon	*depr.*	15 55
Beacons of Brecknock -	*elev.*	31 0

At Margam Down.

Lannon - - -	*depr.*	14 45
Llangeinor Mountain -	*elev.*	17 21
Ogmoor Down - -	*depr.*	59 24
Dunkery Beacon	*elev.*	1 48

At Cefn Bryn.

Lannon - - -	*elev.*	13 0 4
Trecastle Beacon	*elev.*	36 55
Llangeinor Mountain -	*elev.*	25 16
Margam Down - -	*elev.*	11 9
Precelly Top - -	*elev.*	6 12
Dunkery Beacon - -	*elev.*	5 9
Marros Beacon -	*depr.*	12 19
Hangman Hill - - -	*elev.*	1 2
Brenin Vour - -		0 0
Ogmoor Down - -	*depr.*	16 48

At Marros Beacon.

Cefn Bryn - - -	*depr.*	6 19
Lannon - - -	*elev.*	6 36
Precelly Top -	*elev.*	44 15

At Lannon.

Cefn Bryn - -	*depr.*	19 45
Marros Beacon -	*depr.*	19 45

The ground at		°	′	″
Precelly Top	*elev.*	9	16	
Brenin Vour	*depr.*	0	54	
New Inn Hill Station	*elev.*	3	10	
Trecastle Beacon	*elev.*	44	0	
Llangeinor Mountain	*elev.*	13	4	
Margam Down	*depr.*	3	25	
Beacons of Brecknock	*elev.*	27	43	

At Precelly Top.

Beacons of Brecknock	*depr.*	9	20	
Trecastle Beacon	*depr.*	5	15	
Lannon	*depr.*	29	30	
Brenin Vour	*depr.*	45	39	

At Plumstone Down.

St. David's Head	*depr.*	3	43	
Pencar Rock near Fishguard	*elev.*	3	33	
Cwm Kerrwn Mountain	*elev.*	50	30	
Precelly Top	*elev.*	55	33	
St. Ann's Hill	*depr.*	21	12	

At St. Ann's Hill.

Top of Milford Church Steeple	*depr.*	10	24	
Summit of Sir H. Owen's Gazebo	*elev.*	2	28	
Top of Warren Church Spire	*elev.*	2	30	
Cupola of St. Ann's Lighthouse	*depr*	28	14	
Highest Part of Ramsey Isle	*depr.*	1	27	
Plumstone Down	*elev.*	11	51	
Precelly Top	*elev.*	1°	1	33

At Newton Down.

St. Ann's Head	*depr.*	9	39	
Plumstone Down	*elev.*	11	48	
St. David's Head	*elev.*	1	48	
Precelly Top	*elev.*	53	16	
Marros Beacon	*elev.*	4	3	
Highgate Mountain	*depr.*	5	55	

At New Inn Hill.

Lannon	*depr.*	15	56	
Precelly Top	*elev.*	6	53	
Brenin Vour	*depr.*	1	29	
Capel Kynon	*depr.*	12	23	

The ground at		°	′	″
Talsarn Hill	*depr.*	8	30	
Beacons of Brecknock	*elev.*	22	8	

At Talsarn Hill.

Tregarron Down	*elev.*	28	11	
Llandowi Mountain	*elev.*	22	57	
Trecastle Beacon	*elev.*	20	58	
New Inn Hill	*depr.*	5	18	
Brenin Vour	*depr.*	5	50	
Precelly Top	*elev.*	0	10	
Capel Kynon	*depr.*	10	44	
Tregarron Down	*elev.*	28	15	
Plynlimmon	*elev.*	29	15	
Aberystwith Station	*depr.*	33	41	
Cader Idris	*elev.*	21	6	

At Capel Kynon.

New Inn Hill	*elev.*	2	50	
Brenin Vour	*elev.*	5	57	
Precelly Top	*elev.*	14	13	
Tregarron Down	*elev.*	7	27	
Plynlimmon	*elev.*	12	38	

At Tregarron Down.

Plynlimmon	*elev.*	20	18	
Dwggan Mountain	*elev.*	23	36	
Beacons of Brecknock	*elev.*	12	25	
Trecastle Beacon	*elev.*	12	30	
Talsarn Hill	*depr.*	39	27	
Aberystwith Station	*depr.*	57	27	
Snowdon	*depr.*	2	21	
Cader Idris	*elev.*	9	13	
Plynlimmon	*elev.*	20	30	
Llandowi Mountain	*depr.*	20	44	
Barrow near New Inn	*depr.*	22	41	
Talsarn Hill	*depr.*	38	0	
Capellante	*elev.*	2	36	
Precelly Top	*depr.*	17	15	
Cradle Mountain	*elev.*	2	18	
Llandinam Mountain	*depr.*	4	40	

At Aberystwith Station.

Brigny Hill	*elev.*	27	27	

The ground at

Plynlimmon	*elev.*	1° 38	50
Cader Idris	*elev.*	1 12	25
Pengarn	*elev.*	32	7
Snowdon	*elev.*	28	52
Rhiw Mountain	*depr.*	3	42
Tregarron Down	*elev.*	41	58
Talsarn Hill	*elev.*	21	58

At Llandinam Mountain.

Dwggan Mountain		0	0
Tregarron Down	*depr.*	13	6
Plynlimmon	*elev.*	19	22
Arran Fowddy	*elev.*	15	9
Long Mountain	*depr.*	26	1
Stow Hill	*depr.*	24	7
Radnor Forest	*elev.*	5	3
Cradle Mountain	*elev.*	12	22
Beacon of Brecknock	*elev.*	3	27
Capellante Mountain	*depr.*	6	21
Cader Idris	*elev.*	14	21
Brown Clay Hill	*depr.*	14	21

At Stow Hill.

Radnor Forest	*elev.*	42	6
The Beacon of Brecknock	*elev.*	11	0
Llandinam Mountain	*elev.*	9	33
Long Mount Pole	*elev.*	7	11
Malvern Station	*depr.*	13	57
The Wrekin	*depr.*	12	30
Brown Clay Hill	*elev.*	5	32
Long Mountain	*depr.*	10	0
Cradle Mountain	*elev.*	16	19

At Radnor Forest.

Cradle Mountain	*elev.*	4	0
Trecastle Beacon	*depr.*	5	41
Beacon of Brecknock	*elev.*	4	15
Capellante Mountain	*depr.*	8	20
Dwggan Mountain	*depr.*	12	0
Malvern Station	*depr.*	27	45
Llandinam Mountain	*depr.*	17	15

At Symmond's Hall.

The ground at

Malvern Station	*elev.*	0	56
St. Ann's Hill	*depr.*	6	48
May Hill	*depr.*	0	49
Trelleg Beacon	*depr.*	0	9

At Rhiw Mountain.

Rivel Mountain	*elev.*	38	33
Bwlch Mawr	*elev.*	19	9
Snowdon	*elev.*	48	4
Ynaliog Mountain	*depr.*	50	18
Holyhead Mountain	*depr.*	18	0
Llwydiart Mountain	*depr.*	22	32

At Llwydiart Mountain.

Llanelian Mountain	*elev.*	0	26
Great Orme's Head	*elev.*	1	56
Penmaen Mawr	*elev.*	1° 2	21
Carnedd Llewellyn	*elev.*	2 29	21
Carnedd David	*elev.*	2 28	29
Snowdon	*elev.*	1 59	45
Gerwyn Goch	*elev.*	27	44
Rivel Mountain	*elev.*	27	44
Holyhead Mountain	*depr.*	1	39
Moel Rhyddlad	*depr.*	9	18
Ynaliog Mountain	*depr.*	13	22
Rhiw Mountain	*depr.*	5	29
Bwlch Mawr	*elev.*	28	15

At Llanelian Mountain in Anglesea.

Snowdon	*elev.*	1° 8	59
Carnedd David	*elev.*	1 18	10
Carnedd Llewellyn	*elev.*	1 19	44
Penmaen Mawr	*elev.*	29	9
Llanelian Mountain	*elev.*	3	6
Bwlch Mawr	*elev.*	15	23
Gerwyn Goch	*elev.*	15	23
Rivel Mountain	*elev.*	16	21
Great Orme's Head	*depr.*	5	12
Llwydiart Mountain	*depr.*	8	30
Holyhead Mountain	*depr.*	1	24
Moel Rhyddlad	*depr.*	11	57
A Mountain in Cumberland	*depr.*	10	33

The ground at			
A sharp-pointed Mountain near the last	*depr.*	13	6
Southwest Mountain in the Isle of Man	*depr.*	8	47
Northeast Mountain in the Isle of Man	*depr.*	7	33

At Moel Rhyddlad.

Llanelian Mountain	*elev.*	2	26
Bodafon Beacon	*elev.*	2	5
Carnedd Llewellyn	*elev.*	58	34
Carnedd David	*elev.*	58	46
Snowdon	*elev.*	58	10
Bwlch Mawr	*elev.*	18	23
Gerwyn Goch	*elev.*	19	20
Rivel Mountain	*elev.*	21	15
Hill near Nevin	*elev.*	1	55
Holyhead Mountain	*elev.*	20	51
Penmaen Mawr	*elev.*	16	55
Great Orme's Head	*depr.*	6	0
Llwydiart Mountain	*depr.*	4	24
Rhiw Mountain	*depr.*	5	11
Ynaliog Mountain	*depr.*	12	36

At Plynlimmon.

Cader Idris	*elev.*	11	0
Arrennig	*depr.*	5	5
Radnor Forest	*depr.*	14	57
Llandinam Mountain	*depr.*	30	15
Tregarron Down	*depr.*	34	9
Rodney's Pillar	*depr.*	37	3
Aberystwith Station	*depr.*	10	47 55
Berwin Mountain	*depr.*	7	30
Ynaliog Mountain	*depr.*	42	30
Rhiw Mountain	*depr.*	38	57
Rivel Mountain	*depr.*	25	45
Arran Fowddy	*elev.*	5	51

At Long Mountain.

Radnor Forest	*elev.*	10	3
Llandinam Mountain	*elev.*	9	12
Arran Fowddy	*elev.*	29	1
Arrennig	*elev.*	16	3
The ground at			
Berwin Mountain	*elev.*	36	18
Cader Ferwyn	*elev.*	29	28
Cyrn Moelfre	*elev.*	10	7
Cader Idris	*elev.*	16	37
Stow Hill	*depr.*	4	56
Rodney's Pillar	*depr.*	18	15
Ashley Heath	*depr.*	23	48
The Wrekin	*depr.*	8	27
Cyrn y Brain Mountain	*elev.*	1	42

At Brown Clay Hill.

Bar Beacon	*depr.*	34	10
Malvern Station	*depr.*	20	12
Waltham Hill	*depr.*	30	54
The Wrekin	*depr.*	27	29
Long Mount Pole	*depr.*	10	9
Stow Hill	*depr.*	20	30
Rodney's Pillar	*depr.*	23	53
Ashley Heath	*depr.*	32	21

At Ashley Heath.

Highest Part of Beeston Castle	*depr.*	15	21
Delamere Forest	*depr.*	14	41
Mow Cop	*elev.*	7	48
The Wrekin	*elev.*	11	46
Long Mount Pole	*elev.*	5	27
Long Mountain	*depr.*	2	54
Rodney's Pillar	*depr.*	2	54
Highest Point of Hawkeston Obelisk	*depr.*	3	51
Brown Clay Hill	*elev.*	8	15
Cyrn y Brain Mountain	*elev.*	7	24
Weaver Hill	*elev.*	4	9

At Cyrn y Brain Mountain.

Arran Fowddy	*elev.*	16	4
Arrennig	*elev.*	15	21
Carnedd David	*elev.*	16	27
Carnedd Llewellyn	*elev.*	18	44
Cader Ferwyn	*elev.*	32	46
Snowdon	*elev.*	15	33
Delamere Forest	*depr.*	43	12
Ashley Heath	*depr.*	33	9

The ground at			
Rodney's Pillar	*depr.*	27	12
Long Mountain	*depr.*	22	24
Long Mount Pole	*depr.*	16	28
The Wrekin	*depr.*	22	54
Moel Fammau	*depr.*	4	23
Llanelian Mountain	*depr.*	27	39

At Llanelian Mountain in Denbighshire.

Arrennig	*elev.*	38	12
Cader Ferwyn	*elev.*	22	33
Cyrn y Brain Mountain	*elev.*	7	3
Moel Fammau	*elev.*	14	30
Llanelian Mountain	*depr.*	22	59
Garreg Mountain	*depr.*	17	35
Billinge Beacon	*depr.*	24	15
Great Orme's Head	*depr.*	40	57

At Garreg Mountain.

Snowdon	*elev.*	36	58
Denbighshire, Llanelian Mountain	*elev.*	3	21
Anglesea, Llanelian Mountain	*depr.*	18	56
Great Orme's Head	*depr.*	12	41
Arrennig	*elev.*	28	54
Arran Fowddy	*elev.*	25	20
Cyrn y Brain Mountain	*elev.*	29	46
Delamere Forest	*depr.*	14	57
Moel Fammau	*elev.*	1°	3 18

At West End of Base.

Moelfre Issa	*elev.*	3°	16 57
Cave Hill	*elev.*	3	27 43
Great Orme's Head	*elev.*	32	23
Gwaunysgaer Down	*elev.*	51	53
Top of Staff at East End of Base	*depr.*	0	6

At East End of Base.

Moel Morwith	*elev.*	45	26
Moel Fammau	*elev.*	1°	26 12
Moelfre Issa	*elev.*	2	9 26
Great Orme's Head	*elev.*	12	57
Gwaunysgaer Down	*elev.*	46	45
Top of Staff at West End of Base	*depr.*	0	9

At Moelfre Issa.

The ground at			
Moel Fammau	*elev.*	30	15
Llanelian Mountain	*elev.*	15	15
Cyrn y Brain Mountain	*elev.*	16	21
Top of Staff at West End of Base	*depr.*	3°	41 54
Top of Staff at East End of Base	*depr.*	2	46 2
Gwaunysgaer Down	*depr.*	24	6

At Gwaunysgaer Down.

Moel Fammau	*elev.*	51	12
Moelfre Issa	*elev.*	20	4

At Burleigh Moor.

Barnaby Moor	*elev.*	41	35
Roseberry Top	*elev.*	59	16
Wordeslow Hill	*depr.*	6	51
Easington Heights	*elev.*	7	12
Danby Beacon	*elev.*	23	36
Brandon Mount	*depr.*	2	47

At Easington Heights.

Fair Head	*elev.*	10	27
Danby Beacon	*elev.*	26	15
Blackhill Stone	*elev.*	34	9
Botton Head	*elev.*	30	6
Barrow on Gisbro' Hill	*elev.*	25	30
Barnaby Moor	*elev.*	1	27
Stow Brow	*depr.*	1	28

At Botton Head.

Barnaby Moor	*depr.*	47	30
Westerdale	*depr.*	19	40
Loosehoe	*depr.*	10	31
Hambleton Down	*depr.*	26	45
Easington Heights	*depr.*	40	50

At Loosehoe.

Botton Head	*elev.*	3	15
Westerdale	*depr.*	1	9
Roseberry Top	*depr.*	27	48
Easington Heights	*depr.*	44	15

The ground at		′	″
Fair Head	*depr.*	33	54
Stow Brow	*depr.*	27	54
Wilton Beacon	*depr.*	23	30
Hambleton Down	*depr.*	21	47

At Wilton Beacon.

Kirby Underdale		0	0
Botton Head	*elev.*	2	53
Loosehoe	*elev.*	3	30
Hambleton Down	*depr.*	3	37
Hunsley Beacon	*depr.*	17	29

At Heswell Hill.

Cyrn y Brain Mountain	*elev.*	38	28
Go Hill Station	*depr.*	10	57
Billinge Beacon	*depr.*	6	38
Belle-field Hill	*depr.*	9	11
Delamere Forest	*depr.*	1	52

At Belle-field Hill.

Cyrn y Brain Mountain	*elev.*	17	1
Delamere Forest	*elev.*	10	21
Mow Copt	*elev.*	13	29
Billinge Beacon	*depr.*	20	50
Heswell Hill	*depr.*	7	48
Rivington Hill	*elev.*	32	5
Knoll Hill	*elev.*	9	37

At Billinge Beacon.

Rivington Hill	*elev.*	45	7
Chorley Down	*elev.*	27	15
Delamere Forest	*depr.*	8	45
Knoll Hill	*elev.*	15	3
Cyrn y Brain Mountain	*elev.*	7	22
Belle-field Hill	*depr.*	15	37
Heswell Hill	*depr.*	15	16
Garreg Mountain	*depr.*	5	36
Go Hill Station	*depr.*	28	9
Beryl Hill	*depr.*	23	7

At Go Hill.

Bleasdale Forest	*elev.*	19	24
Chorley Down	*elev.*	31	36

The ground at		′	″
Rivington Hill	*elev.*	41	21
Billinge Beacon	*elev.*	20	21
Heswell Hill	*depr.*	2	28
Beryl Hill	*depr.*	11	52
Pendle Hill	*elev.*	18	57

At Wittle Hill.

Knoll Hill	*depr.*	1°	4	27
Holme Moss	*elev.*	5	1	
Boulsworth Hill	*elev.*	2	51	
Pendle Hill	*elev.*	7	33	
Ingleborough	*elev.*	1	39	
Bleasdale Forest	*depr.*	1	39	
Chorley Down	*depr.*	21	36	
Rivington Hill	*depr.*	7	12	
Billinge Beacon	*depr.*	37	28	
Mow Copt	*depr.*	22	42	
Axedge	*depr.*	7	48	

At Axedge.

Rivington Hill	*depr.*	19	4
Wittle Hill	*depr.*	17	31
Holme Moss	*depr.*	4	40
Lord's Seat Station	*depr.*	3	53
Hathersage	*depr.*	19	48
Weaver Hill	*depr.*	30	23
Mow Copt	*depr.*	39	41

At Staincross Heights.

Bradfield Point	*elev.*	39	48
Holme Moss	*elev.*	49	52
Ledstone Beacon	*depr.*	17	20
Clifton Beacon	*depr.*	10	3
Hathersage	*elev.*	24	54
Rumbles Moor	*elev.*	6	4

At Boulsworth Hill.

Ingleborough	*elev.*	5	35
Cam Fell	*elev.*	3	59
Great Whernside	*elev.*	6	32
Rumbles Moor	*depr.*	24	42
Holme Moss	*elev.*	5	18
Wittle Hill	*depr.*	24	42

The ground at		′	″
Rivington Hill	*depr.*	14	40
Bleasdale Forest	*depr.*	9	3
Pendle Hill	*elev.*	6	12

At Ingleborough Hill.

Coniston Fell	*depr.*	8	11
Black Comb	*depr.*	22	24
Helvellin Mountain	*depr.*	0	53
The Calf	*depr.*	13	50
Whernside in Ingleton Fells	*elev.*	2	21
Shunnor Fell	*depr.*	8	15
Great Whernside	*depr.*	9	35
Pennigant	*depr.*	13	0
Pendle Hill	*depr.*	25	20
Bleasdale Forest	*depr.*	31	4
Boulsworth Hill	*depr.*	27	26

At Rumbles Moor.

Black Hambleton	*depr.*	15	44
Hambleton Down	*depr.*	17	15
Ledstone Beacon	*depr.*	38	41
Bradfield Point	*depr.*	13	8
Holme Moss	*elev.*	5	2
Boulsworth Hill	*elev.*	13	12
Pendle Hill	*elev.*	9	5
Cam Fell	*elev.*	18	39
Great Whernside	*elev.*	25	34
Pennigant	*elev.*	15	24

At Ledstone Beacon.

Hambleton Down	*elev.*	2	50
Wilton Beacon	*elev.*	0	3
Rumbles Moor	*elev.*	20	36
Staincross Heights	*elev.*	3	18

At Black Hambleton.

Collier Law	*depr.*	9	24
Great Whernside	*elev.*	9	30
Water Crag	*elev.*	3	26
Cross Fell	*elev.*	0	15
Rumbles Moor	*depr.*	13	12
Ledstone Beacon	*depr.*	30	42
Hambleton Down	*depr.*	28	24

The ground at		′	″
Wilton Beacon	*depr.*	22	2
Botton Head	*elev.*	12	45

At Hambleton Down.

Wilton Beacon	*depr.*	17	5
Botton Head	*elev.*	17	6
A Hill near Stokesley	*elev.*	14	12
Black Hambleton	*elev.*	22	15
Water Crag	*elev.*	2	18
Rumbles Moor	*depr.*	8	44
Ledstone Beacon	*depr.*	28	12
Great Whernside	*elev.*	12	0

At Brandon Down.

Collier Law	*elev.*	38	45
Pontop Pike	*elev.*	6	51
Hambleton Down	*depr.*	7	59
A Hill near Stokesley	*depr.*	0	15
Botton Head	*depr.*	1	14
Burleigh Moor	*depr.*	17	30
Easington Heights	*depr.*	17	3
Wordeslow Hill	*depr.*	18	0
Sherf Hill	*depr.*	21	38
Water Crag	*elev.*	19	18

At Wordeslow Hill.

Botton Head	*elev.*	3	6
Water Crag	*elev.*	10	2
Brandon Down	*elev.*	8	2
Collier Law	*elev.*	17	55
Pontop Pike	*elev.*	12	22
Simonside Hill	*depr.*	0	50
The Cheviot	*elev.*	5	24
Hedgehope	*elev.*	2	58
Marston Hill	*depr.*	32	14

At Pontop Pike.

Simonside Hill	*depr.*	2	48
Rufflaw	*depr.*	20	43
Wordeslow Hill	*depr.*	23	58
Brandon Down	*depr.*	14	56
Collier Law	*elev.*	35	21
Kilhope Law	*elev.*	28	6

At Collier Law.

The ground at		′	″
Cross Fell	*elev.*	30	5
Kilhope Law	*elev.*	21	43
Water Crag	*elev.*	4	17
Brandon Down	*depr.*	48	42
Pontop Pike	*depr.*	44	36
Simonside Hill	*depr.*	18	1
Hedgehope	*depr.*	9	5
Wordeslow Hill	*depr.*	38	42

At Water Crag.

Skiddaw	*depr.*	5	54
Saddleback	*depr.*	5	50
Penrith Beacon	*depr.*	39	21
Kilhope Law	*depr.*	10	6
Collier Law	*depr.*	23	9
Brandon Down	*depr.*	41	3
Black Hambleton	*depr.*	31	42
Great Whernside	*depr.*	4	57
Whernside in Ingleton Fells	*depr.*	0	38
Shunnor Fell	*elev.*	11	6
Nine Standards	*depr.*	8	18
Cross Fell	*elev.*	10	46

At Cross Fell.

Helvellin Mountain	*depr.*	5	2
Skiddaw	*depr.*	7	43
The Calf	*depr.*	28	30
The Cheviot	*depr.*	23	44
Wisp Hill	*depr.*	30	48
Hedgehope	*depr.*	27	0
Simonside Hill	*depr.*	38	9
Collier Law	*depr.*	46	35
Water Crag	*depr.*	28	36
Great Whernside	*depr.*	24	43
Shunnor Fell	*depr.*	23	59
Crif-Fell	*depr.*	33	6
Bow Fell	*depr.*	11	51
High Pike	*depr.*	31	39
Saddleback	*depr.*	12	9
Grisdale Pike	*depr.*	19	54
Cold Fell	*depr.*	47	27
Daffenside Beacon	*depr.*	1°	4 31

At Beryl Hill.

The ground at		′	″
Black Comb	*elev.*	26	28
Bleasdale Forest	*elev.*	49	0
Go Hill	*elev.*	4	25
Billinge Beacon	*elev.*	0	7

At The Calf.

Black Comb	*depr.*	17	43
Coniston Fell	*elev.*	1	19
Helvellin Mountain	*elev.*	16	0
High Pike	*depr.*	13	8
Penrith Beacon	*depr.*	45	8
Cross Fell	*elev.*	10	31
Shunnor Fell	*elev.*	2	31
Whernside in Ingleton Fells	*elev.*	7	11
Ingleborough	*elev.*	0	34
Pennigant	*depr.*	5	6
Sca-Fell, lower Top	*elev.*	9	48
Sca-Fell, highest Top	*elev.*	11	30
Saddleback	*elev.*	3	4

At Black Comb.

Coniston Fell	*elev.*	33	13
Helvellin Mountain	*elev.*	24	26
Sca-Fell, lower Top	*elev.*	48	58
Sca-Fell, highest Top	*elev.*	50	40
The Pillar	*elev.*	31	15
Bleasdale Forest	*depr.*	19	2
Ingleborough	*depr.*	7	25
The Calf	*depr.*	7	43
Bow Fell	*elev.*	38	23
Kirk Fell	*elev.*	20	31
Snea Fell	*depr.*	16	0
North Berule	*depr.*	17	27
Lower Cairns Moor	*depr.*	20	5
Bengarn	*depr.*	27	3
Crif-Fell	*depr.*	19	15
Scilly Bank	*depr.*	49	14

At Scilly Bank.

North Berule	*elev.*	7	9
Snea Fell	*elev.*	7	45
Crif-Fell	*elev.*	22	21

The ground at		′	″
Grasmere Fell	*elev.* 2°	3	27
Skiddaw	*elev.* 1	24	15
Black Comb	*elev.* 31	31	
Bengarn	*elev.* 8	0	

At Dent Hill.

Sca-Fell, highest Top	*elev.* 1°	50	36
Sca-Fell, lower Top	*elev.* 1	51	10
Black Comb	*elev.* 21	45	
Red Pike	*elev.* 1°	56	25
Blake Fell	*elev.* 1	15	42
Crif-Fell	*elev.* 2	54	
Bengarn	*depr.* 9	15	
Scilly Bank	*depr.* 1°	24	3
North Berule	*depr.* 3	30	
Snea Fell	*depr.* 3	0	
Grisdale Pike	*elev.* 1°	18	54
Grasmere Fell	*elev.* 1	46	53
Skiddaw	*elev.* 1	6	1
The Pillar	*elev.* 2	16	0

At Crif-Fell.

Snea Fell	*depr.* 19	30	
North Berule	*depr.* 20	20	
Skiddaw	*elev.* 17	5	
High Pike	*depr.* 3	30	
Whin Fell	*depr.* 3	52	
Queensberry Hill	*elev.* 2	39	
The Lowthers Station	*depr.* 0	36	
Cairnsmoor near Carsphairn	*elev.* 3	0	
Lower Cairnsmoor Station	*depr.* 4	7	
Bengarn	*depr.* 35	23	
Wisp Hill	*depr.* 12	23	
Cross Fell	*depr.* 4	25	
Saddleback	*elev.* 8	23	
Helvellin	*elev.* 7	12	
Dent Hill	*depr.* 27	36	

At Wisp Hill.

Cross Fell	*depr.* 2	31	
The Cheviot	0	0	
The Dunrigs	*elev.* 5	48	
Whin Fell	*elev.* 10	26	

The ground at		′	″
Queensberry Hill	*depr.* 0	50	
Crif-Fell	*depr.* 15	15	
Elden Hills, highest Point	*depr.* 25	10	
Skiddaw	*depr.* 0	40	
Soutra Hill	*depr.* 18	45	
Sayrs Law	*depr.* 18	29	

At Sayrs Law.

Spartleton	*depr.* 30	44	
Arthur's Seat	*depr.* 37	35	
Pentland Station	*depr.* 12	29	
Pentland Hill near Glencross	*depr.* 13	10	
Soutra Hill	*depr.* 6	1	
The Dunrigs	*elev.* 5	28	
Elden Hills, highest Point	*depr.* 20	15	
The Cheviot	*elev.* 5	51	
Hedgehope	*depr.* 1	51	
Wisp Hill	*depr.* 11	57	
West Lomond	*depr.* 14	16	
East Lomond	*depr.* 18	11	
Largo Law	*depr.* 28	47	

At Lumsdane Hill.

Sayrs Law	*elev.* 28	8	
Spartleton	*elev.* 31	48	
Largo Law	*depr.* 9	32	
The Cheviot	*elev.* 30	48	
Hedgehope	*elev.* 22	15	
Blackheddon	*depr.* 10	54	
East Lomond	*depr.* 6	38	
West Lomond	*depr.* 4	48	
Cockburn Law	*elev.* 20	50	
Warlaw Bank	*elev.* 13	48	
Great Dirrington Law	*elev.* 21	24	
Twinlaw Cairns	*elev.* 20	9	
Habchester Hill	*depr.* 7	11	

At Mordington Hill.

Blackheddon	*depr.* 4	54	
Roes Castle	*elev.* 3	34	
Hedgehope	*elev.* 38	30	
The Cheviot	*elev.* 45	37	
Sayrs Law	*elev.* 21	20	

The ground at			
Habchester Hill	-	*elev.*	30 0
Elden Hills, highest Point	–	*elev.*	4 33
At Blackheddon.			
The Cheviot	- -	*elev.*	1° 28 39
Hedgehope	- -	*elev.*	1 18 12
Simonside	- -	*elev.*	10 11
Roes Castle	- -	*elev.*	25 16
Sayrs Law	- -	*elev.*	9 51
Lumsdane Hill	- -	*depr.*	6 14
Habchester Hill	- -	*depr.*	3 20
At Alnwick Moor.			
The Cheviot	-	*elev.*	1° 12 38
The ground at			
Hedgehope	-	*elev.*	1° 10 22
Simonside	- -	*elev.*	26 59
Rufflaw	- -	*depr.*	15 26
Roes Castle	- -	*elev.*	13 6
At Rufflaw.			
Pontop Pike	- -	*elev.*	2 18
Collier Law	- -	*elev.*	9 42
Wordeslow Hill	- -	*depr.*	10 6
Alnwick Moor	- -	*elev.*	4 45
Hedgehope	- -	*elev.*	43 46
The Cheviot	- -	*elev.*	48 33
Simonside	- -	*elev.*	53 58

ART. III. *Situations of the Stations.*

Royston. The station taking its name from this town, lies about two miles to the westward of it. There is a commanding spot of ground near the road leading to Baldock; and, upon this, between two ridges of ploughed land is the station. A large thorn bush grows on this hill, from which the station is thirty feet distant towards the termination of the ridge with the unploughed land.

Orwell. This station is so named from its being near to the village of Orwell in Cambridgeshire: it is about three quarters of a mile south-westward from it, and is situated on a green spot upon the highest ground at that distance from Orwell.

Maddingly. This station, named after the village to which it lies the nearest, is about fifty yards from a windmill, and close to the south side of the road leading to Cambridge. From Maddingly, it is about one quarter of a mile distant.

Balsham, Cambridgeshire. About a mile and a half from this town, towards the north, is a commanding piece of ground. It is in common fields, and has two clumps of trees growing upon it. The station is in the line joining the centre of these clumps, and may be found by setting off three hundred feet from the northern towards the southern clump.

The station near *Newmarket* is situated on a level spot of ground south-east of the town. It is two hundred and fifty yards eastward from a large circular plantation, and nearly one hundred and fifty westward from the trough at which the race horses are watered.

Brandon. The station, taking its name from Brandon in Suffolk, is in the middle of the rabbit warren on the high ground south from the town. It lies in a corner formed

by the conjunction of two old walls at the distance of two hundred yards from the keeper's hut.

Crowle station is situated about half a mile east from the village of Crowle in Lincolnshire. It is on a rising ground where once stood a windmill. There is now a mill nearly two hundred feet east of this station: it can be easily found.

Hunsley Beacon, Yorkshire. This station is south-west from Beverley, and distant about seven miles. It lies southward from the road leading from North Cave to Beverley, and is also south from the Beacon Pole.

Wilton Beacon, Yorkshire. The hill on which this beacon is erected, lies a little southward of the turnpike road leading from York to Bridlington, and near the fourteenth mile stone on that road. The station is on a bank of earth, and distant from the beacon pole one hundred and fifty feet in a direction nearly south-west.

Nunburnholme, Yorkshire. This station is situated north-west of the village bearing that name, at a distance of nearly two miles: it is on a small common, and lies south from a barn at the distance of one hundred yards nearly.

Looseboe, Yorkshire. The station is about two miles and a half north of the village called by this name. It is on a common, flat and boggy, and altogether open: it may be rather called a moor. There are not any marks on this ground to which the station can be referred.

Greenboe Moor, Yorkshire. This station is on the high ground in the north of Yorkshire, being two miles north from the village of Ingleby Greenhoe. It is on a barrow on the highest part of this moor, and can be found very easily. That part of the moor on which the station is situated is known by the name of *Botton Head*.

Helkinton. This station is named from a farm to which it is near. Helkinton Farm is west from the village of Cold Ashby in Northamptonshire, and about three quarters of a mile distant. The station is in the fifth field from the village, and about sixty yards from the road, being close to the western hedge.

Naseby Field. The station is in the centre of the large open field, and on the highest part of it.

Tilton on the Hill. The station near this place is situated on a commanding spot north from the road leading to Oakham. It is on the fifth ridge of unploughed ground east from a stone quarry.

Bardon Hill, Leicestershire. Bardon Hill is on Charlwood Forest, and between nine and ten miles from Leicester. The station is on the flat top of a rock seventy feet west from the summer house built on this hill.

Stathern Point. The station is on the west side of this promontory, and not more than half a mile from Stathern village: it is in the Duke of Rutland's park on a kind of bank, and nearly seventy yards from the gate.

Holland Hill, Nottinghamshire. This hill is about three miles from the village of

Arnold. Round the top of it is a circular ring, probably the remains of some very old military work. Outside this ring, on the northern side of it, is the station: it is in the south-west corner of a field belonging to a Mr. Jones.

Sutton Ashfield. The station, for brevity sake, named Sutton, lies about one mile south-east from Sutton Ashfield: it is on the brow of land terminating Sherwood Forest, and lies close to the road on its eastern side leading from Kirby to the *Red House*, which is situated by the side of the road proceeding from Sutton Ashfield to Mansfield.

Gringley on the Hill. Joining the east end of this village is a field, in which is a very large barrow. The centre of this barrow marks the station.

Clifton Beason. This station is on the highest ground in the north-west corner of a field close to the village of Clifton near Conisbrough in Yorkshire.

Easington Station. This is near a village of the same name in the north-east of Yorkshire. It lies a little eastward of Lord Dundas's alum works, and in the highest part of a field close to the cliff: a stone hedge lies a little south from the station, and another west from it at a short distance. The place on which this station is situated can be easily found, as it is the highest part of the ground in this quarter.

Burleigh Moor. This spot lies nearly north from the town of Gisborough in Yorkshire, at a distance of three miles. It is in the grounds at Upleatham, the seat of Lord Dundas, and has an open view of the sea. On the northern part of the hill the ground slopes to the westward, and also to the northward, on which side there is a plantation. The place of the station is about thirty feet southward of the stone hedge, separating the plantation from the ploughed ground. By the favour of Lord Dundas, a high pole was left standing on the station, where it now remains.

Symmond's Hall, Glocestershire. This station is west from the house bearing this name. It is about eighty yards from the eastern side of the Wooten-under-edge road, passing near Symmond's Hall, and about thirty yards from the southern wall inclosing a bowling green.

Blagdon Hill, Somersetshire. This is one of the hills forming the Mendip range. It lies midway between the villages of Blagdon and Chedder, and the station is the centre of the largest barrow on the hill.

Quantock Hills, or *Bagborough Station,* Somersetshire. On the highest part of the Quantock Hills, west from Coltheston Beacon, at about two miles distant, are barrows. They are above the village of Bagborough. One of these barrows is named *Will's Neck,* and close to Will's Neck on the eastern side is the station.

Dunkery Beacon near Porlock in Somersetshire. On this well-known hill are two stone barrows touching each other at their bases. Close to both barrows on the western side is the station.

Brompton Ralph, Somersetshire. The ground west from this town rises abruptly, and on the highest part of this ground, near the slope, are the remains of an ancient quadran-

gular fortification. On the parapet of the north-east corner is the station. This spot is known by the name of *Elworthy Barrows.*

Haddon Beacon, Somersetshire. The station is in the middle of a small inclosure. On the top of this beacon, which is about four miles north from Dulverton.

North Molton Ridge, Devonshire. This is on Exmoor Forest, and situated east from the town of North Molton, two miles and a half. A road passes over the Down upon this ridge, on which is a large barrow in the middle of a bog; on this barrow is the station.

Span Head, or *Five Barrow Down,* is nearly six miles north from South Molton. A road passes over the Down to the south of the station, and is about five hundred yards from it.

Parracombe Station is two miles south of Parracombe, and on Exmoor. There are several barrows on the Down, and on the third barrow from Parracombe is the station.

Hathersage Moor. This station is in Derbyshire. It is a very commanding situation, lying midway between the town called Hathersage and Sheffield. The station is on the highest part of the Moor, the ground falling gradually around it. Near the station, a turnpike road branches off towards Stoney Middleton, leaving the station in the angle formed by that road, and the one leading from Sheffield over the hill to the town or village of Hathersage.

Orpit Heights, Derbyshire. The high ground, called Orpit Heights, is about two miles from Wirksworth in the direction of Derby. The station is nearly two hundred yards from the old road leading to Derby, and close to the east side of a stone pit on the top of the highest ground. There is a stone of singular form and great size, standing upright very near to this station.

Axedge. The hill bearing this name is two miles south-west from Buxton. On the top of this well known hill is a barrow, the centre of which marks the station.

Weaver Hill, Staffordshire. This hill is north from Wooten, and close to it. The station is on a barrow on the top. The centre of the barrow marks the station.

Castle Ring. In the Earl of Uxbridge's park in Cannock Forest, Staffordshire, is a high spot of ground, on which are the remains of an ancient fortification. The interior of the work is planted with trees, and the point marking the station is on the western embankment.

Bar Beacon, Staffordshire. This is a well known spot near Walsall, having a circular plantation on its top. The point marking the station cannot be easily found for want of proper marks to which it can be referred. From the northern edge of the plantation, it is about thirty yards distant.

Malvern Hills. The station is on the highest point of the range, and just above the town of Great Malvern. It can be easily found.

Cleeve Hill, Glocestershire. The station is nine feet north from the wall, which runs

nearly in a direction east and west across the hill. The distance is taken perpendicularly to the wall, and is the nearest point from the wall to the station. Cleeve Hill is a part of the high ground eastward of and near to Cheltenham.

Beacon Moor near Chumleigh in Devonshire. This station is a mile and a half from the town towards the north. It cannot be easily found; it is however on the highest part of the Down.

Hatherleigh Station in Devonshire, is about twenty yards to the westward of the road leading to Chumleigh, and about one mile from the town. It is near the hedge, and a little south from the cottage.

Bradbury Castle on Bradbury Down, Devonshire. The station is on the outside of the parapet, and close to the ditch at the north-west corner of the work.

Warbstow Beacon in Cornwall, is situated about half a mile north-west of Warbstow. The station is in the middle of the field said to have been the site of an old beacon.

May Hill, Glocestershire. This is a well known spot near the village of Huntley. The station is on the south-east side of a circular plantation growing on this hill.

Trelleg Beacon, Monmouthshire. Trelleg Beacon is situated on Trelleg Moor near the town of Trelleg. The station is on the place where a beacon formerly stood, and may be easily found.

Cradle Mountain, Brecknockshire. The high land south from Talgarth, and some few miles from it, bears the name of Black Forest. Cradle Mountain is in the middle of this forest. The station is marked by the centre of an obtruncated cone on the highest part of the mountain.

Mynydd Mane, Monmouthshire. This station is on the high land south-west from Pontypool, and about three miles from it. The hill lies between two canals joining at Newport. A road passes over the hill. The station is seventy yards south from the road, and near to the eastern side of the hill.

The Garth. The hill thus called is close to, and a little to the north of Pentyrch in Glamorganshire. Two very large barrows stand on this hill, and the station is on the top of the western barrow.

Ogmoor Down, Glamorganshire. This Down lies between the villages of Ogmoor and St. Bride's. A part of this common is inclosed, and in the south-west corner of a field belonging to the rectory of St. Bride's is the station.

Margam Down near Margam in Glamorganshire. The station is north from the town about two miles. It is situated on the apex of a small round hill near a pond on this Down.

Llangeinor. The station taking this name is situated on a mountain thirteen or fourteen miles from Bridgend, towards the north, and six or seven miles from the village of Llangeinor. The land in this quarter is high, and, being entirely devoid of any defined

object, does not admit of the means by which the station can be accurately pointed out. A mountain called Blaengarrw is west from the station nearly a mile and a half.

Cefn Bryn, Glamorganshire. Twelve miles west from Swansea is Llanridian, a small village. South from Llanridian, and near to it, is a range of high ground having a direction east and west. At the eastern extremity of the range is a pile of stones, and near to this is the station, round which are placed many other stones for the purpose of preserving it. A remarkable stone, called King Arthur's stone, is placed on this range nearly a mile westward.

Lannon, Caermarthenshire. The station near this village is on the top of an insulated hill on the south-west side of Lannon. A ring of stones surrounds the station.

Marros Beacon, Caermarthenshire. The beacon is south from Marros church a half a mile, and near the coast.

Newton Down, Pembrokeshire. This Down is nearly two miles and a half south-east from Pembroke. The station cannot be pointed out with sufficient accuracy, the Down being flat, open, and destitute of marks of reference.

Highgate Mountain. The land thus called is south from Pembroke, and the station is about two miles from that town in a south-west direction. There are not any marks near this station to which it can be referred.

St. Ann's Hill, Pembrokeshire. The station on this head land, is about one mile from the village of Dale, being in a field, a little more than half a mile from St. Ann's Lighthouses. The field may be easily found, as the farm house and the highest of the lighthouses are nearly in the same line from the station. From the south-west corner of this field, the station is distant three hundred and ten feet, and from the south-east corner three hundred and seventy-five feet.

Plumstone Down. This station lies nearly seven miles north-west from Haverfordwest, and a mile eastward from Roch Castle. The place of the station cannot be pointed out otherwise than by saying, that it is on that part of the Down which affords the most extensive views.

Precelly Top. This is a high and very well known mountain, north from Haverfordwest fourteen miles. The mountain is conical, and has a barrow on the top of it. On the south side of the flat head of the barrow is the station.

Capel Kynon is in Cardiganshire. The station is on an extensive moor seven miles east from Newcastle in Caermarthenshire. There are not any marks on this Down by which the station may be discovered.

New Inn, a village in Caermarthenshire. The station taking its name from this place is about two miles from it in a southern direction: there are two large barrows on the hill. The station is on the western barrow.

Talsarn, Cardiganshire. The hill on which this station is to be found is about three miles north of the village of Talsarn. A barrow of great magnitude stands on the hill: the station is upon it, and near the centre of the barrow.

Caermarthen Vau. The staff was erected on the highest part of this hill. Caermarthen Vau is a very high mountain, sometimes called Trecastle Beacon.

Capellante, a mountain in Brecknockshire. The station is on the highest part of the mountain, which has a conical top.

Tregarron Down is four miles from the town of Tregarron in Cardiganshire, in a direction nearly south-east: on the top of the Down is a large heap of stones. The station is sixty yards south from it.

Aberystwith, Cardiganshire. At the distance of a mile and a half from Aberystwith, in an eastern direction, is a small conical hill. The station is on the highest part of this hill.

Plynlimmon, Montgomeryshire. The station is on the highest part of this mountain. Near to it are two large piles of stones. The station is on the north-east side of the highest pile, and about twenty feet from it.

Peggwns Fawr, or Llandinam Mountain, Montgomeryshire. This station is due east from Llanidloes, and about six miles from it. A barrow stands on the hill, the centre of which marks the station.

Stow, Shropshire. Close to the north side of this village is high rocky ground, having steep rocks on the slope of it. About fifty yards behind these rocks, on the highest part of the hill, the station is to be found.

New Radnor, Radnorshire. The station is in the forest, and on the western side of it. It is about three miles and a half from Radnor.

Clay Hill, commonly called Brown Clay Hill, Shropshire. This hill is nearly a mile south from the village called Prior's Ditton. There is an ancient work of stone on this hill, inclosing a considerable space of ground: on the south-west corner is the station.

The Wrekin, Shropshire. The station is on the eastern and highest part of this mountain.

Long Mountain, Montgomeryshire. This mountain is near Welch Pool, and has on its top a large ancient fortification. The ground within the work rises gradually from the circumference to the centre; and on the highest part of the hill is the station.

Hawkston Obelisk. This object, serving as a point of intersection to several stations, is situated in Sir Richard Hill's Park at Hawkston near Market Drayton.

Asbley Heath, Staffordshire. This heath is about three miles and a half from Market Drayton in an eastern direction. Upon it there is a spot destitute of furze or heath, called *Parson's Chapel.* It is on the highest ground, and the station may be found very easily.

Mow Copt, Staffordshire. This hill is situated four miles south from Congleton, and is well known throughout the county. The station is on the narrow ridge of it, and fifty yards east from a very large rock, on which are the remains of an old gazebo.

Delamere Forest, Cheshire. This forest is situated north from Tarporley, and the

station about five miles from that town. On the forest is a farm called the *Old Pale*, and west from the farm house, is a high piece of ground, at the bottom of which is a rabbit-warren. The hill is the highest on the forest: on the top of it is a hedge, crossing it in a direction north and south, and another hedge meets it at right angles near the top of the hill. The station, on which the zenith sector was erected, is thirty feet west from the former hedge, and forty yards from the latter.

Cyrn y Brain. The mountain called by this name is in Denbighshire, being two miles south-east from the village of Llandegle. On the top is a large carn of stones. The station lies south-east from this carn about thirty yards. A great number of stones were taken from the great carn, and heaped over the station.

Pengarn. This mountain lies between Towyn and Dolgelly in Merionethshire. At the nine mile stone from Towyn, this mountain bears north-west, and is not more than half a mile from it. There is a high stone barrow on the top of the mountain. The station is on this barrow.

Ynaliog. This station is on an insulated conical hill, having a very narrow top, the centre of which marks the station. Ynaliog is about a mile and a half north from Aberdaron in Caernarvonshire.

Rhiw Mountain, Caernarvonshire. This mountain is south-west from Pwlheli, and about twelve miles distant from it. It is close to the little village Rhiw Lan, which lies in the bosom of the bay called Hell's Mouth. The station is thirty-four feet from the corner of the Beacon House.

Snowdon. The object was placed on the very highest part of this mountain.

Moel Rhyddlad, Anglesea. The station is situated on the highest part of this hill, which is about half a mile northward from the village of Llanrhyddlad.

Holybead, Anglesea. The object observed was the naval signal staff on this mountain.

Llanelian, Anglesea. A mile south-east from this village lies an insulated hill, commonly called Llanelian Mountain. On the top of this hill is a ridge, sloping gradually off towards the north and south. The station is on the highest part of the ridge.

Llwydiart, Anglesea. The hill called by this name is situated on the open ground, and is about a mile east from the village of Pentreth. The south side of the hill is very steep. The station is near the commencement of the slope, and on the highest part of the hill.

Great Orme's Head, Caernarvonshire. The object observed was the naval signal staff.

Llanelian, Denbighshire. A mile and a half from this village southward lies a hill, called Llanelian Mountain. On this hill is a barrow having a concavity on its top. The centre of the concavity marks the station.

West End of Base, Denbighshire. In the eastern angle formed by the sea wall, and the end of the road leading from Abergele to the bathing place, is the station.

East End of Base, Flintshire. The station is near to the road leading from St. Asaph

to Rhuddlan. It is on the west side of the road, and no great distance from it, and is rather more than a quarter of a mile from Rhuddlan.

Moelfre Issa, Denbighshire. This is a mountain nearly three miles south from Abergele. On the top is a heap of stones, and on the western side, close to the heap, is the station.

Gwaunysgaer Down, Flintshire. This hill lies about five miles from the town of Rhuddlan. A village called Gwaunysgaer is at the bottom of the hill on its southern side. The station is on the top of the hill, and in the middle of the green spot commonly called the *Bowling Green*.

Garreg Mountain, Flintshire. This mountain, though properly speaking only a hill, is a mile west from the village of Whitford. The station lies about twenty yards south from an old circular building on the top of the hill.

Heswell Hill, Cheshire. This hill is about three miles west from Parkgate. The station is on the top of it, and north from a pool of water, and within a few feet of it.

Go Hill, Lancashire. This station is in the parish of Aughton, and about a mile from the village. It is half a mile west from Ormskirk Windmill, and on the top of the hill, in the middle of an inclosed field, is the station.

Billinge Beacon, Lancashire. This beacon is half a mile nearly from Billinge in a northern direction. It is situated on a high rising ground, and the station lies on the top of the hill in a direct line between the gazebo and a stone quarry, and about thirty yards from the former.

Belle-field Hill, Cheshire. This hill is about three miles and a half from Warrington towards the south, and a quarter of a mile westward from the road leading from Warrington to Northwick. It is an insulated hill. The station is on the top of the hill, which is of a conical form.

Rivington Hill, Lancashire. This hill is nearly five miles north-west from Bolton, and about a mile and a half eastward from Rivington Pike. A road passes over the hill. The station is nearly a hundred yards north from it. From the want of proper marks on this hill, the precise point marking the station, cannot be pointed out.

Wittle Hill, or *Wittle Pike*, Lancashire. This place is about seven miles northwards of Rochdale, and about two miles north from the road leading from that town to Haslington. A barrow stands on this hill. The station is on the top and in the centre of the barrow.

Holme Moss, Cheshire. This is part of the high land three miles north of Woodhead, and that range of hills which runs from Derbyshire through Cheshire into Yorkshire. Holme Moss is an open and barren spot, and does not contain any singularity of feature, by which the place of the station can be pointed out.

Lord's Seat, near Castleton, Derbyshire. This hill lies one mile north from the road leading from Castleton to Chapel in le Frith, and nearly at an equal distance from those

places. On the top of Lord's Seat is a very high barrow. The station is on the middle of the barrow.

Bradfield Point, Yorkshire. Bradfield Point is the northern extremity of a range, running from the south towards the north, and terminating at this point which is nearly a mile and a half from the village of Bradfield. A road passes over the hill close to the station.

Staincross Heights, Yorkshire. The station is half a mile nearly west from the village called Staincross. It is on the western part of the heights, and near to an old stone quarry.

Ledstone Beacon, Yorkshire. This station is in Ledstone Park. The beacon pole is west from the point marking the station nearly thirty-five yards.

Boulsworth Hill, Lancashire. This hill is about four miles from Colne, and nearly five miles from Burnley, in an eastern direction. A point on this hill is called Ladlaw, and this point is the station.

Bleasdale Forest, Lancashire. The object observed was placed on the highest ground, and near the western termination of this range.

Pendle Hill, Lancashire. On this hill was formerly a beacon. It is distant from Clitherow five miles, and lies south from it. The station is on the eastern part of the hill, and upon the point where the beacon stood.

Ingleborough, Yorkshire. The station on this well known mountain is sixty-seven yards east from the old hut (a shepherd's hut). Round the station are placed a great number of very large stones.

Great Whernside, Yorkshire. This is a high mountain north-east from Kettlewell, and nearly two miles from it. On the top are a great number of huge rocks, scattered about in all directions. One of these rocks towards the south is perfectly flat, and on the centre of it is the station.

Rumbalds, or *Rumbles Moor,* Yorkshire. This place is nearly two miles south from Ilkley. The station is on the highest ground of this moor, and on a barrow.

Hambleton Down, and Black Hambleton Stations, Yorkshire. Hambleton Down is near to Hambleton Inn, which is about seven miles eastward from Thirsk. This station is on the top of a large barrow in the second field south from the moor, and in the second field west from the *Grey Mare Rocks.* Black Hambleton Station is just above Keebeck, a small village at the bottom of the Down, and is also on a barrow.

Beryl Hill, Lancashire, is a rising ground near the village of Warbreck, about three miles to the westward of the town of Poulton in the Fylde. The station is twenty feet west of the side of a lane leading from Warbreck, by some farm houses, to Bispham, and a little to the northward of a sand pit.

The Calf, Yorkshire. The station is about four miles north of Sedbergh, and cannot be discovered by measurement, as there is no defined object near it.

Black Comb. The southmost of the Cumberland range of mountains. The station is on the highest part of the mountain, and is rendered remarkable by a large quantity of stones placed round the lower part of the staff. It is about three miles south-east of the village of Bootle.

Scilly Bank, Cumberland. This station is about one mile and a quarter north-east of Whitehaven.

Dent Hill, Cumberland, is situated towards the western extremity of Copeland Forest, and the station being on its summit, from whence the ground falls abruptly in every direction, may be found without any difficulty.

High Pike, Cumberland. This is one of the Caldbeck Fells, and the station on it is about four miles south of that village.

Cross Fell, A very remarkable mountain about nine miles south of Aldstone in Cumberland. The station is on its summit, and may be discovered by means of the stones placed around the staff.

Water Crag is situated in that mountainous tract of country called Arkengarth Forest, in the North Riding of Yorkshire. The station is about three miles west of the village of Arkendale.

Collier Law is about two miles north-east of Stanhope in the county of Durham. The station is two hundred and thirty-two feet north-west from a pile of stones, which is kept up by the country people with great tenacity.

Brandon Down, or ***West Brandon Mount,*** Durham. The station is situated on the western end of a sharp ridge of earth, which appears to have been excavated from a quarry near it many years ago. It is the flat part of this ridge which is the summit of the hill, and is about one mile from East Brandon, close to the side of a lane leading from thence to West Brandon.

Wordeslow Hill, Durham. This station is about one mile and a quarter north-east of the village of Houghton le Spring.

Pontop Pike, Durham. There is a plantation and a house near the top of this hill, and a stone fence runs from the end of the plantation in a northerly direction. The station is on the highest part of the hill, and about forty-five feet from the angular point formed by the fence and plantation.

Rufflaw, Northumberland, is nearly two miles south of Longhorsley. There are several houses on this hill, but none of them sufficiently near the station to serve as a convenient reference.

Alnwick Moor, is about two miles westward of Alnwick in Northumberland, and the station may be discovered without any difficulty, as it is on the top of the hill, and only five yards from the junction of three stone dikes, measured in a direct line with the light-house on Coquet Island.

Blackheddon, Northumberland. This hill is situated on the western side of the road,

leading from Belford to Berwick-upon-Tweed, and about one mile and a quarter south-west of Kyloe. The station is on the eastern side of a barrow.

Mordington Hill, Scotland. The station on this hill is about three quarters of a mile south-west from the four mile stone on the road from Berwick-upon-Tweed to Ayton.

Lumsdane Hill, Scotland. On this hill is a large barrow, and the station is one hundred and ninety-six feet west from the centre of it.

Sayrs Law, Scotland. The station is on the highest part of this hill, which is the highest of the Lammer Muir range of hills. It is about nine miles south of Haddington.

Wisp Hill, Scotland. A well-known hill on the western side of the road leading from Longholm to Hawick. The station is about one mile south-west from Morpaul Inn.

Crif-Fell, Scotland. This remarkable hill is about three miles south of New Abbey. The station is close to the southern side of Douglas's Cairn.

SECTION SECOND.

ART. I. *Particulars relative to the Measurement of a new Base Line on Rhuddlan Marsh in the Year* 1806, *with the Reduction of that Base Line.*

North-west from St. Asaph, at the distance of four miles, commences an extensive and level piece of ground, which reaches from the village of Rhuddlan on the western borders of Flintshire, to that called Llandulas in Denbighshire. Though it bears the name marsh, yet it is for the most part cultivated and inclosed, having ditches and deep dikes. The soil is of a strong marly nature. A bank from Rhuddlan to Llandulas protects the level from the encroachments of the Irish Sea; the mean height of it above low water mark being about twenty-five feet.

By favour of John Lloyd Esq. a plan of the marsh was procured, drawn to a large scale, which greatly facilitated the choice of that part of it whereon the base line was to be measured. On due examination of the ground, with the assistance of this plan, the particular direction affording the longest measurable line was determined, the eastern extremity being near the road side, adjacent to Rhuddlan bridge, and the western on the bank or sea wall at the distance of nearly an half a mile north from Abergele.

The apparatus for the measurement of this base line, was brought from the place in which it had been deposited in Lincolnshire, after the use of it on Misterton Carr in the summer of 1802, to Rhuddlan Marsh in September, and on the 22d of the same month the base was traced out, and many points in the true line found, and marked with pickets, exactly in the same manner

and by the same means as were adopted in the measurements on Salisbury Plain, Sedgemoor, and Misterton Carr.

In the account of the Trigonometrical operations, published in the Philosophical Transactions, 1803, Mr. Berge is shewn to have re-determined the lengths of the standard and working chains. These chains, from that to the present recorded period, had been carefully preserved and cleaned at proper intervals. They were now compared with each other. At the first trial, the thermometers stood as follows: the chain B being laid straight in the coffer.

Thermometers.

1	2	3	4	5
55·5	55·5	55·5	55·25	56.

The temperature remaining unaltered, the chain B was taken out of the coffers, and the chain A stretched out in its stead. The difference between their lengths was measured with the micrometer screw, which gave the chain A longer than the chain B one revolution six divisions of the micrometer's head.

This operation was repeated twice in the same day, at times when the sun did not shine out, or the wind blow. The same result was given at each trial, as in the one abovementioned, differing from Mr. Berge's determination, by measuring the length of each chain, 0,0068 parts of an inch.

The fifty feet chain was, on this occasion, compared with the standard B, and discovered to be 12,25, or 0,0471 parts of an inch shorter than that standard.

The line of the base being previously traced out, and blocks of wood sunk at the extremities, to mark the points of departure and termination, the measurement of the base was proceeded with, and continued with little interruption till the 24th day of

October, when it finished with the 249th chain, of which number eight were with the fifty feet chain.

On the first convenient opportunity, after the measurement was completed, the chains A and B were compared with each other, the temperature during the operation continuing uniform, the thermometers in the coffers standing as follows; *viz.*

Thermometers.

1	2	3	4	5
59	60,8	60,8	61	61,6.

From this and several subsequent removals of each chain, it appeared that A exceeded B one revolution 7,5 divisions of the micrometer head, giving a wear of one division and a half, or 0,0058 parts of an inch in the working chain A, by the use of it on this occasion. The fifty feet chain was also compared with the standard, and found to be 12,25, or 00,471 parts of an inch shorter when measured with twice its length.

ART. II. *Reduction of the Base to the Temperature of 62°.*

The apparent length of the base was 241 chains of 100 feet + 8 chains of 50 feet each, and the overplus of the last chain, *viz.* 12,208 feet - - Feet. 24512.208

The length of the chain A, previous to the measurement, may be taken according to Mr. Berge's determination = 100 feet + 0.1325 parts of an inch, in the temperature of 54°; and if half its wear, *viz.* 0.0029 parts of an inch be added to its excess, we shall have $\frac{0.1354}{12} \times 241 = 2{,}723$ feet, which add - - + 2.723

The standard chain B, according to Mr. Berge's determination, is 0.0778 parts of an inch too long; and by our comparisons, it exceeds twice the length of the fifty feet chain by 0.0471 parts of an inch. Therefore twice the length of the fifty chain is 0.0307 parts of an inch too great, which gives $\frac{0.0307}{12} \times 4 = 0{,}01$, which also add - - - - - + 0.01

The sum of the degrees shewn on the thermometers was 76945, wherefore $\frac{76945}{5} - 54^\circ \times 24512 \times \frac{0.0075}{12}$ = 1,345 feet, which is the correction for the mean heat in which the base was measured above 54°, the temperature in which the chains were laid off, and this add - - - - - - + 1.345

Finally, we have $\frac{0.01237 \times 245.12 \times 8}{12} = 2{,}022$ feet for the reduction of the base to the temperature of 62°, which subtract - - - - — 2.022

Hence the true length of the base in the temperature of 62° is - - - - - - 24514,26

ART. III. *Calculation of the Sides of the principal Triangles carried on from the Side joining the Stations Bowbrickhill and Lilleyhoe towards Cambridgeshire and Norfolk. Plate I.*

Distance from Bowbrickhill to Lilleyhoe, 69867,5 feet. Phil. Trans. 1803.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
1.	Royston - -	18 55 45,5	+ 0,51	18 55 46	
	Lilleyhoe - -	139 18 13,5	— 1,21	139 18 13	
	Bowbrickhill -	21 46 1	— 0,13	21 46 1	
		180 0 0			
		Royston from { Lilleyhoe -			79866,8*
		Royston from { Bowbrickhill -			140433,6

Distance from Lilleyhoe to Lidlington 49025 feet. Phil. Trans. 1803.

II.	Royston - -	23 43 41,75		23 43 42	
	Lilleyhoe -	115 18 36		115 18 36	
	Lidlington - -	· · ·		40 57 42	
		Royston from { Lilleyhoe -			79867*
		Royston from { Lidlington -			110136,5
III.	Royston - -	126 8 16,75		126 8 16	
	Orwell - -	35 24 20		35 24 20	
	Lilleyhoe - -	· · ·		18 27 24	
		Orwell from { Lilleyhoe -			111330,9
		Orwell from { Royston - -			43642,8
IV.	Royston - -	50 58 3,5		50 58 3	
	Orwell - -	101 51 21,5		101 51 21	
	Balsham - -	27 10 36		27 10 36	
		180 0 1			
		Balsham from { Orwell - -			74225
		Balsham from { Royston - -			93515,3

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
v.	Trusler Hill -	121 38 32		121 38 32	
	Brogborough -	46 15 28		46 15 28	
	Lilleyhoe - -	12 6 0		12 6 0	
		180 0 0			
	Brogborough from { Trusler Hill				14702,7
	Brogborough from { Lilleyhoe -				59713,5
vi.	Orwell - -	54 0 44,5		54 0 44	
	Maddingly -	102 57 27,75		102 57 27	
	Balsham - -	23 1 49,25		23 1 49	
		180 0 1,5			
	Maddingly from { Balsham -				61627,8
	Maddingly from { Orwell - -				29796,8
vii.	Orwell - -	19 7 3		19 7 3	
	Balsham -	130 25 24		130 25 24	
	Newmarket - -	30 27 33		30 27 33	
	Newmarket from { Balsham -				47954,2
	Newmarket from { Orwell - -				111467,4
ix.	Maddingly - -	96 47 58,25		96 47 58	
	Balsham - -	40 24 23,75		40 24 24	
	Northy -	42 47 38		42 47 38	
	Northy from { Balsham -				90076,1
	Northy from { Maddingly -				58801,6
ix.	Balsham - -	45 31 21		45 31 21	
	Newmarket -	104 53 23		104 53 23	
	Ely Minster - -	29 35 16		29 35 16	
	Ely Minster from { Newmarket -				69298,5
	Ely Minster from { Balsham -				93860,1

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
x.	Newmarket -	71 6 46,25		71 6 46	
	Brandon Hill - -	51 50 57,25		51 50 57	
	Ely Minster - -	. . .		57 2 17	
	Brandon Hill from { Ely Minster				83377,9
	Newmarket -				73937,7
xi.	Newmarket -	58 55 4,25		58 55 4	
	Brandon Hill -	66 5 15,75		66 5 15	
	Littleport - -	. . .		54 59 42	
	Littleport from { Brandon -				77307,5
	Newmarket -				82519,6
xii.	Trusler Hill -	79 8 40,5		79 8 40	
	Bowbrickhill - -	39 44 20		39 44 20	
	Brogborough -	61 7 0		61 7 0	
		180 0 0,5			
	Brogborough from Bowbrickhill -				22587.2*
xiii.	Bowbrickhill -	54 38 58		54 38 58	
	Lilleyhoe - -	17 58 10		17 58 10	
	Brogborough -	. . .		107 22 52	
	Brogborough from { Bowbrickhill				22586,2*
	Lilleyhoe -				59712,5
xiv.	Bowbrickhill -	39 51 19		39 51 19	
	Hill Farm - -	27 50 22		27 50 22	
	Horsemoor Hill -	. . .		112 18 19	
	Horsemoor Hill from { Browbrickhill				8166,1
	Hill Farm				11206,2

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
XV.	Bowbrickhill -	5 52 54		5 52 54	
	Trusler Hill - -	3 59 0		3 59 0	
	Horsemoor Hill -	170 8 6		170 8 6	
	Horsemoor Hill from {	Bowbrickhill			8165,6
		Trusler Hill			12044,8
XVI.	Brogborough -	19 4 25		16 4 25	
	Bowbrickhill - -	45 37 41		43 37 41	
	Horsemoor Hill -	. . .		115 17 54	
	Horsemoor Hill from {	Brogborough			17859
		Bowbrickhill			8164,4
XVII.	Brogborough -	85 29 1		85 29 1	
	Bowbrickhill - -	37 6 50		37 6 50	
	Hill Farm - -	. . .		57 24 9	
	Hill Farm from {	Brogborough -			16178
		Bowbrickhill -			26728,9

ART. IV. *Calculation of the Sides of the principal Triangles carried on from the Side Arbury Hill and Bardon Hill towards the Northern Part of Leicestershire.*

Distance from Arbury Hill to Bardon Hill 180434 feet.

XVIII.	Arbury Hill -	36 45 31,75		36 45 32	
	Bardon Hill - -	17 44 20,5		17 44 21	
	Helkinton - -	125 30 8		125 30 7	
		180 0 0,25			
	Helkinton from {	Arbury Hill -			67529,4
		Bardon Hill -			132638,3

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
XIX.	Arbury Hill -	27 3 31,25	-	27 3 31	
	Burrow Hill - -	143 13 51,25	-	143 13 51	
	Helkinton -			9 42 38	
	Burrow Hill from { Helkinton -				51319,1
	Burrow Hill from { Arbury Hill				19028,4
	Distance from Holland Hill to Bardon Hill 124460 feet.				
XX.	Holland Hill -	68 46 52,5	-	68 46 52	
	Bardon Hill - -	39 39 16,5	-	39 39 17	
	Stathern Point -	71 33 50,75		71 33 51	
		179 59 59,75			
	Stathern Point from { Bardon Hill				122298,7
	Stathern Point from { Holland Hill				83722,1

From the last triangles we get the distance from Bardon Hill to Helkinton = 132638,3 feet, and the distance from Bardon Hill to the station on Stathern Point = 122298,7 feet; these, with the observed angle at Bardon Hill, viz. 93° 15′ 28″, give the angles in the following triangle.

XXI.	Stathern Point -	45 33 55	
	Helkinton - -	41 40 37	
	Bardon Hill -	93 15 28	which triangle gives 185455,2 feet for the distance between Helkinton Station and Stathern Point Station.

XXII.	Helkinton - -	9 0 10		9 0 10	
	Stathern Point -	11 10 53		11 10 53	
	Tilton on the Hill -	159 48 57		159 48 57	
		180 0 0			
	Tilton on the Hill from { Stathern Point				84108
	Tilton on the Hill from { Helkinton -				104228,2

XXIII	Helkinton - -	50 10 46,5	—0,7	50 10 46	
	Bardon Hill -	50 32 31,25	—0,48	50 32 31	
	Tilton on the Hill -	79 16 43,5	—1,58	79 16 43	
		180 0 1,25			
	Tilton on the Hill { Helkinton -				104228,1
	Tilton on the Hill { Bardon Hill				103683,2

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″		° ′ ″	Feet.
XXIV.	Bardon Hill -	42 42 56,75	—0,32	42 42 56,5	
	Tilton on the Hill -	80 32 18,5	—0,6	80 32 18,5	
	Stathern Point -	56 44 45,25	—0,95	56 44 45	
		180 0 0,5			
	Tilton on the Hill from Stathern Point				841076
XXV.	Bardon Hill - -	23 23 48,5	—0,2	23 23 48	
	Holland Hill -	48 13 36,5	—0,11	48 13 36	
	Cropwell Bishop -	108 22 36,5	—1,1	108 22 36	
		180 0 1,5			
	Cropwell Bishop { Holland Hill -				52078,1
	Cropwell Bishop { Bardon Hill -				97808,3
XXVI.	Bardon Hill - -	16 15 34,25		16 15 34	
	Stathern Point -	43 57 24,5		43 57 24	
	Cropwell Bishop -	119 47 2,25	-	119 47 2	
		180 0 1			
	Cropwell Bishop from { Stathern Point				39454
	Cropwell Bishop from { Bardon Hill -				97810,2
XXVII.	Cropwell Bishop -	131 50 19		131 50 18	
	Holland Hill - -	20 33 12		20 33 12	
	Stathern Point -	27 36 30	-	27 36 30	
		180 0 1			
	Cropwell Bishop from { Stathern Point				39452,5
	Cropwell Bishop from { Holland Hill -				52076,2
XXVIII.	Holland Hill - -	40 17 28,75		40 17 29	
	Cropwell Bishop -	97 22 7		97 22 7	
	Bottesford - -	[illegible]	-	42 20 24	
	Bottesford from { Holland Hill -				76681,4
	Bottesford from { Cropwell Bishop				50001

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
XXIX.	Stathern Point -	93 34 9		93 34 9	
	Cropwell Bishop -	34 28 15		34 28 15	
	Bottesford -			51 57 36	
	Bottesford from { Stathern Point				28352,8
	Bottesford from { Cropwell Bishop				49997,8
XXX.	Cropwell Bishop -	125 27 11,25		125 27 10	
	Holland Hill -	18 42 50,75		18 42 50	
	South End of a proposed Base Line -	35 50 0,25		35 50 0	
		180 0 2,25			
	South End of Base from { Holland Hill -				72463,5
	South End of Base from { Cropwell Bishop -				28541
XXXI.	Cropwell Bishop -	39 52 49,5		39 52 49	
	North End of Base -	38 51 45		38 51 45	
	South End of Base -	101 15 27		101 15 26	
		180 0 1,5			
	North End of Base from { South End -				29165,7
	North End of Base from { Cropwell Bishop				44612
XXXII.	Cropwell Bishop -	46 15 59,5		46 15 59	
	Stathern Point - -	75 2 5,5		75 2 4	
	North End of Base	58 41 57,25		58 41 57	
		180 0 2,75			
	North End of Base from { Stathern Point -				33363,6
	North End of Base from { Cropwell Bishop				44607,8
XXXIII.	Stathern Point - -	59 3 56,75		59 3 57	
	South End of Base -	101 5 54		101 5 53	
	North End of Base -	19 50 9,5		19 50 10	
		180 0 0,25			
	South End of Base from { North End of Base				29162,3
	South End of Base from { Stathern Point -				11537

The last four of the foregoing triangles might have been omitted, were it not that many observations to church towers and other objects were made from the two extremities of the base once proposed to be measured.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
XXXIV.	Helkinton - -	45 9 48		45 9 48	
	Tilton on the Hill -	9 2 8,25		9 2 8	
	Naseby-field - -	125 48 4,5		125 48 4	
		180 0 0,75	-		
	Naseby-field from {	Helkinton - -			20182
		Tilton on the Hill -			91128,6
XXXV.	Holland Hill - -	73 30 59		73 30 59	
	Stathern Point -	73 17 38		73 17 38	
	Lincoln Minster -	. . .		33 11 33	
	Lincoln Minster from {	Holland Hill -			146484,5
		Stathern Point			146656,3
XXXVI.	Holland Hill - -	98 5 59,5		98 5 59	
	Sutton Ashfield - -	67 51 16		67 51 16	
	Lincoln Minster -	. . .		14 2 45	
	Lincoln Minster from {	Holland Hill			146454,7
		Sutton Ashfield			156541,8

Mean distance from Lincoln Minster to Holland Hill 146469,6 feet.

Distance between Castle Ring and Orpit Heights 153235,2 feet.

XXXVII.	Orpit Heights -	42 2 15	—0,02	42 2 15	
	Castle Ring - -	25 21 43,5	—0,23	25 21 43	
	Weaver Hill - -	112 36 3,5	—1,44	112 36 2	
		180 0 2			
	Weaver Hill from {	Orpit Heights			71095,7
		Castle Ring -			111144,1

ART. V. *Calculation of the Sides of the principal Triangles proceeding from the Base Line recently measured on Rhuddlan Marsh.*

Length of the Base on Rhuddlan Marsh 24514,3 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
XXXVIII.	East End of Base -	135 18 59,5		135 11 58	
	West End of Base -	20 34 2,5		20 34 1	
	Gwaunysgaer Down -	24 14 1,5		24 14 1	
		180 0 3,5			
	Gwaunysgaer Down from { East End of Base				20981,2
	Gwaunysgaer Down from { West End of Base				42084,2
XXXIX.	East End of Base -	40 12 33		40 12 32	
	West End of Base -	75 45 17		75 45 17	
	Moelfre Issa -	64 2 11		64 2 11	
		180 0 1			
	Moelfre Issa from { East End of Base				26427,8
	Moelfre Issa from { West End of Base				17602,4
XL.	West End of Base -	96 19 19,5		96 19 18	
	Gwaunysgaer Down -	21 40 25		21 40 24	
	Moelfre Issa -	62 0 19,5		62 0 18	
		180 0 4			
	Moelfre Issa from the West End of the Base				17601,9

The mean distance between Moelfre Issa and the West End of the Base, viz. 17602,2 feet used in the above triangle, gives the distance between Moelfre Issa and Gwaunysgaer Down Stations = 47372 feet.

XLI.	Gwaunysgaer Down -	37 42 34,75	+0,03	37 42 34,75	
	Moelfre Issa - -	117 26 11,25	−06,7	117 26 10,5	
	Great Orme's Head -			24 51 14,75	
	Great Orme's Head from { Gwaunysgaer Down				100030,7
	Great Orme's Head from { Moelfre Issa - -				68938,8

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	′	° ′ ″	Feet.
XLII.	Moelfre Issa - -	21 49 26	+0,12	21 49 26	
	Llanelian Mountain	138 45 47	−0,86	138 45 46	
	Great Orme's Head -	. . .		19 24 48	
	Llanelian Mountain from {	Moelfre Issa -			34761,3
		Great Orme's Head			38879,2
XLIII.	Llanelian Mountain	124 52 10,5	−0,10	124 52 10,5	
	Garreg Mountain -	15 12 25	+1,42	15 12 26,5	
	Great Orme's Head	. . .	-	39 55 23	
	Garreg Mountain from {	Llanelian Mountain			95119,4
		Great Orme's Head			121605,2
XLIV.	Llanelian Mountain -	100 7 44,5	−1,65	100 7 42,75	
	Garreg Mountain -	46 10 33,5	−0,50	46 10 32	
	Arrennig Mountain	. . .		33 41 45,25	
	Arrennig Mountain from {	Llanelian Mountain			123697,2
		Garreg Mountain			168780,8
XLV.	Garreg Mountain -	52 12 59	−0,48	52 12 58,5	
	Cyrn y Brain - -	92 33 31,5	−1,59	92 33 30	
	Arrennig Mountain -	. . .	-	35 13 31,5	
	Cyrn y Brain Mountain from {	Garreg Mountain			97449*
		Arrennig Mountain			133525,4
XLVI.	Garreg Mountain -	98 23 31,5	−1,02	98 23 30,5	
	Llanelian Mountain -	41 24 11,25	−0,51	41 24 10,75	
	Cyrn y Brain Mountain	40 12 19,25	−0,64	40 12 18,75	
		180 0 2			
	Cyrn y Brain Mountain from {	Garreg Mountain			97451,1*
		Llanelian Mountain			145773,8

Mean distance between the Stations on Cyrn y Brain and Garreg Mountains 97450 feet

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
XLVII.	Garreg Mountain -	62 29 13,75	—1,16	62 29 12,75	
	Cyrn y Brain Mountain	74 23 15,5	—1,64	74 23 14,5	
	Delamere Forest -	43 7 33	—0,83	43 7 32,75	
		180 0 2,25			
	Delamere Forest from {	Garreg Mountrin - -			137294
		Cyrn y Brain Mountain			126431,6
XLVIII.	Cyrn y Brain Mountain	45 50 51,5	—1,16	45 50 50,5	
	Delamere Forest -	89 38 38,5	—1,91	89 38 37	
	Ashley Heath - -	44 30 32,75	—1,02	44 30 32,5	
		180 0 2,75			
	Ashley Heath from {	Cyrn y Brain Mountain			180350*
		Delamere Forest -			129401,1
XLIX.	Delamere Forest -	38 8 17,5	—0,56	38 8 17	
	Ashley Heath - -	58 17 24,5	—0,60	58 17 24	
	Mow Copt - -	. . .		83 34 19	
	Mow Copt from {	Delamere Forest			110780,5
		Ashley Heath -			80418,3
L.	Ashley Heath - -	45 40 38	—0,39	45 40 37,5	
	Weaver Hill -	42 11 18,75	—0,40	42 11 18,5	
	Mow Copt - -	. . .		92 8 4	
	Weaver Hill from {	Ashley Heath			119663,4
		Mow Copt -			85668,3
LI.	Weaver Hill - -	64 23 4,75	—0,96	64 23 3,75	
	Castle Ring - -	61 9 42,75	—0,96	61 9 42	
	Ashley Heath - -	. . .		54 27 14,25	
	Castle Ring from {	Weaver Hill -			111148,1*
		Ashley Hill -			123178,4*

In the Account of the Trigonometrical Operations, published in the Philosophical Transactions in the year 1803, page 433, Part II. it will be seen that the distance between Castle Ring and the station on Orpit Heights, was found to be 153235,2 feet, which distance entirely depended on the base of verification on Misterton Carr.—This side 153235,2 feet in the 37th Triangle of the present work, viz. Orpit Heights, Castle Ring, and Weaver Hill gives 111144,1 feet for the distance between Castle Ring and Weaver Hill. But by the above triangle, Weaver Hill, Castle Ring, and Ashley Heath, that distance is found to be 111148,4 feet, and depending altogether on the base line recently measured on Rhuddlan Marsh. The difference between the independent results in a line exceeding twenty-one miles in length is 4,3 feet; therefore, if the computation had been carried on directly from one base to the other, as for instance, from Misterton Carr to Rhuddlan Marsh, the measured and computed lengths of the latter base, would not have differed more than nine inches and an half.

Cyrn y Brain Mountain from Arrennig Mountain 133525,4 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
LII.	Cyrn y Brain Mountain	78 27 46,5	—1,83	78 27 44,75	
	Long Mountain -	47 56 2,5	—1,27	47 56 1,25	
	Arrennig Mountain -	. . .		53 36 14	
	Long Mountain from { Cyrn y Brain Mountain				144778,5
	Long Mountain from { Arrennig Mountain -				176229,4
LIII.	Cyrn y Brain Mountain	38 16 4	—0,97	38 16 3	
	Long Mountain -	93 3 53,25	—2,15	93 3 51	
	The Wrekin - -	. . .		48 40 6	
	The Wrekin from { Cyrn y Brain Mountain				192531,1
	The Wrekin from { Long Mountain -				119411,8
LIV.	Cyrn y Brain Mountain	30 28 30,5	—1,1	30 28 29,5	
	Ashley Heath - -	81 36 1,5	—1,77	81 35 59,75	
	The Wrekin - -	. . .		67 55 30,75	
	Ashley Heath from { Cyrn y Brain Mountain				180352,2*
	Ashley Heath from { The Wrekin - -				98702,9

O

No. of Triangles.	Names of Stations.	Observed Angles.	Diff	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
LV.	Ashley Heath - -	75 28 8,25	—1,11	75 28 7,25	
	Castle Ring - -	44 9 15,5	—0,7	44 9 14,75	
	The Wrekin -	. . .		60 22 38	
	Castle Ring from { Ashley Heath -				123174,7*
				{ The Wrekin -	137161,6
LVI.	Castle Ring - -	89 55 48,75	—0,8	89 55 48	
	Bar Beacon - -	69 24 32	—0,42	69 24 31,5	
	The Wrekin - -	. . .		20 39 40,5	
	Bar Beacon from { Castle Ring -				51699,3*
				{ The Wrekin -	146522,3

Distance from Castle Ring to Corley — 123539,7 feet. Phil. Trans. 1803, p. 433.

LVII.	Castle Ring - -	35 56 1	—0,25	35 56 0,75	
	Bar Beacon - -	123 41 19	—1,04	123 41 18	
	Corley - -	. . .		20 22 41,25	
	Bar Beacon from { Castle Ring -				51700,5*
				{ Corley - -	87131*

Distance from Bardon Hill to Corley 106357,3 feet. Phil. Trans. 1803, p. 433.

LVIII.	Bardon Hill - -	38 8 41,75	—0,51	38 8 41,5	
	Corley - -	92 55 30	—1,13	92 55 29	
	Bar Beacon - -	48 55 50	—0,49	48 55 49,5	
		180 0 1,75			
	Bar Beacon from { Bardon Hill -				140890
				{ Corley - -	87134,5*

From the two first of the last three triangles, we have another verification of the bases on Rhuddlan Marsh and Misterton Carr. The distance from Castle Ring to Bar Beacon, as deduced from the base on the latter spot, is 51700,5 feet and 51699,3 feet, as derived from the base line measured on the former.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
LIX.	Cyrn y Brain Mountain	55 20 35,5	—2,13	55 20 33,25	
	Ashley Heath - -	65 58 36,25	—2,54	65 58 33,75	
	Pole on Long Mount Forest - -	. . .		58 40 53	
	Long Mount Pole from { Cyrn y Brain Mountain				192824,7*
	Long Mount Pole from { Ashley Heath - -				173653,9
Mean distance from Cyrn y Brain Mountain to Ashley Heath 180351,1 feet.					
LX.	Cyrn y Brain Mountain	62 23 4	—1,44	62 23 2,5	
	Ashley Heath - -	39 59 20,25	—0,98	39 59 19,25	
	Rodney's Pillar -	. . .		77 37 38,25	
	Rodney's Pillar from { Cyrn y Brain Mountain				118655,9
	Rodney's Pillar from { Ashley Heath - -				163604,2*
LXI.	Delamere Forest -	55 4 35,5	—1,5	55 4 34	
	Ashley Heath - -	84 29 50,75	—2,25	84 29 48,5	
	Rodney's Pillar -	. . .		40 25 37,5	
	Rodney's Pillar from { Delamere Forest				198625,6
	Rodney's Pillar from { Ashley Heath -				163610*
Mean distance from Ashley Heath to Rodney's Pillar 163607,1 feet.					
LXII.	Ashley Heath - -	47 26 30,25	—1,41	47 26 28,75	
	Brown Clay Hill -	64 19 8	—1,63	64 19 6,5	
	Rodney's Pillar -	. . ..		68 14 24,75	
	Brown Clay Hill from { Ashley Heath				168604,7*
	Brown Clay Hill from { Rodney's Pillar				133719,9
LXIII.	Ashley Heath - -	21 27 5,75	—1,05	21 27 5	
	Brown Clay Hill -	83 43 56	—0,64	83 43 55,25	
	Long Mount Pole -	. . .		74 48 59,75	
	Brown Clay Hill from { Ashley Heath -				168600*
	Brown Clay Hill from { Long Mount Pole -				63889,2

Mean distance from Brown Clay Hill to Ashley Heath 168602,3 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	′	° ′ ″	Feet.
LXIV.	Ashley Heath - -	51 18 50	+0,03	51 18 50	
	Brown Clay Hill -	19 10 2	−0,32	19 10 1,75	
	Hawkeston Obelisk -	. . .		109 31 7,5	
	Hawkeston Obelisk from { Ashley Heath -				58731,6*
	Hawkeston Obelisk from { Brown Clay Hill -				139632,9
LXV.	Delamere Forest - -	25 48 17,5	+0,46	25 48 17	
	Ashley Heath - -	80 37 21	−0,7	80 37 20,25	
	Hawkeston Obelisk -	. . .		73 34 22,75	
	Hawkeston Obelisk from { Delamere Forest -				133105,1*
	Hawkeston Obelisk from { Ashley Heath -				58726,2*
LXVI.	Cyrn y Brain Mountain	60 26 45,5	−1,19	60 26 44,25	
	Delamere Forest -	63 50 21	−1,23	63 50 19,75	
	Hawkeston Obelisk -	. . .		55 42 56	
	Hawkeston Obelisk from { Cyrn y Brain Mountain				137342,6*
	Hawkeston Obelisk from { Delamere Forest -				133108,8*
LXVII.	Long Mountain -	59 58 33,5	−1,26	59 58 32,25	
	Cyrn y Brain Mountain	54 8 40	−1,2	54 8 38,75	
	Hawkeston Obelisk -	. . .		65 52 49	
	Hawkeston Obelisk from { Long Mountain - -				128566,4
	Hawkeston Obelisk from { Cyrn y Brain Mountain				137342*

Distance from the Long Mountain to the Wrekin 119411,8 feet.

LXVIII.	Long Mountain -	84 0 3,5	−1,29	84 0 2,25	
	Stow Hill - -	52 20 58	−0,79	52 20 57,25	
	The Wrekin -	. . .		43 39 0,5	
	Stow Hill from { Long Mountain -				104104,3
	Stow Hill from { The Wrekin -				149994,2

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
LXIX.	Stow Hill - -	23 28 32	—0,03	23 28 32	
	Brown Clay Hill -	122 50 14,5	—1,53	122 50 13	
	The Wrekin - -	. . .		33 41 15	
	Brown Clay Hill from { Stow Hill -				99017,7
	Brown Clay Hill from { The Wrekin				71114,3
LXX.	Stow Hill - -	40 7 52		40 7 52	
	Brown Clay Hill -	47 12 31		47 12 31	
	Long Mount Pole -	. . .		92 39 37	
	Long Mount Pole from Stow Hill				72740,8
LXXI.	Stow Hill - -	56 46 16	—1,16	56 46 15	
	Brown Clay Hill -	89 6 55	—1,67	89 6 53,5	
	Malvern Station -	34 6 52	—1	34 6 51,5	
		180 0 3			
	Malvern Station from { Stow Hill -				176529,8
	Malvern Station from { Brown Clay Hill				147682,1
LXXII.	Stow Hill - -	67 53 50	—1,38	67 53 48,75	
	Malvern Station -	49 58 40,5	—1,76	49 58 38,75	
	Cradle Mountain -	. . .		62 7 32,5	
	Cradle Mountain from { Malvern Station				185023,2
	Cradle Mountain from { Stow Hill -				152928,4
	Mean distance from Cyrn y Brain Mountain to Garreg Mountain 97450 feet.				
LXXIII.	Cyrn y Brain Mountain	69 54 7	—1,37	69 54 5,75	
	Garreg Mountain -	81 7 0,25	—1,77	81 6 58,5	
	Snowdon - -	. . .		28 58 55,75	
	Snowdon from { Cyrn y Brain Mountain -				198707,2
	Snowdon from { Garreg Mountain - -				188872,5

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
					Feet.
LXIV.	Garreg Mountain -	36 1′ 24″,75	—1″,49	36 1′ 23″,25	
	Llanelian Mountain	58 20 7,25	—1,56	58 20 5,75	
	Snowdon - - -	. . .		85 38 31	
	Llanelian Mountain in Anglesea, from	Garreg Mountain			221266*
		Snowdon -			130506

Distance from Llanelian Mountain, Denbighshire, to Garreg Mountain 95119,4 feet.

LXXV.	Llanelian Mountain	148 8 2,5	—5,4	148 7 57	
	Garreg Mountain -	18 44 53,5	+2.27	18 44 55,75	
	Llanelian Mountain, Anglesea, - -	13 7 8,25	+1,45	13 7 7,25	
		180 0 4,25			
	Llanelian Mountain from	Garreg Mountain -			221259*
		Llanelian Mountain, in Denbighshire -			134702,5
LXXVI.	Llanelian Mountain, Anglesea - -	103 47 38	—1,14	103 47 36,75	
	Moel Rhyddlad -	55 44 39,25	—0,15	55 44 39	
	Snowdon - - -	. . .		20 27 44,25	
	Moel Rhyddlad from	Llanelian Mountain, Anglesea			55199,1
		Snowdon - - - -			153342,7
LXXVII.	Moel Rhyddlad -	31 43 44,5	—0,07	31 43 43,5	
	Llanelian Mountain, Anglesea - -	111 13 19	—0,45	111 13 17,5	
	Llwydiart Mountain -	37 2 59,75	—0,05	37 2 59	
		180 0 3,25			
	Llwydiart Mountain from	Moel Rhyddlad - - -			85402,9*
		Llanelian Mountain, Anglesea			48180,5

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
					Feet.
LXXVIII.	Moel Rhyddlad - -	° ′ ″ 24 0 54,75	+″0,19	° ′ ″ 24 0 55	
	Llwydiart Mountain -	131 13 8	—1,81	131 13 7,75	
	Snowdon - - -	. . .		24 45 57,75	
	Llwydiart Mountain from { Moel Rhyddlad				85399,4*
	Llwydiart Mountain from { Snowdon -				82966,6
LXXIX.	Llanelian Mountain, Anglesea - -	8 49 1,5	+0,21	8 49 1,75	
	Llanelian Mountain, Denbighshire -	23 15 52	+1,10	23 15 53	
	Great Orme's Head -	. . .		147 55 5,25	
	Great Orme's Head from { Llanelian Mountain, Denbighsh.				38874,7*
	Great Orme's Head from { Llanelian Mountain, Anglesea -				100172,7*
LXXX.	Llanelian Mountain, Anglesea - -	46 36 31,75	—0,10	46 36 31,76	
	Llwydiart Mountain -	105 49 45	—0,58	105 49 44,25	
	Great Ormes Head -	. . .		27 33 44	
	Great Orme's Head from { Llanelian Mountain, Anglesea				100178*
	Great Orme's Head from { Llywdiart Mountain - -				75666,6
LXXXI.	Llanelian Mountain, Anglesea - - -	98 31 59	—0,62	98 31 58,5	
	Llwydiart Mountain -	54 55 34	—0,17	54 55 33,75	
	Signal Staff, Holyhead	. . .		26 32 27,75	
	Signal Staff, Holyhead, from { Llanelian Mountain, Anglesea				88245,4
	Signal Staff, Holyhead, from { Llwydiart Mountain - -				106631,7*

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
					Feet.
LXXXII.	Moel Rhyddlad - -	116 10 1,5	—0,68	116 10 0,75	
	Llwydiart Mountain -	17 52 34,25	—0,09	17 52 34,25	
	Signal Staff, Holyhead	. . .		45 57 25	
	Signal Staff, Holyhead from { Moel Rhyddlad -				36469,3
	Signal Staff, Holyhead from { Llwydiart Mountain				10?631,6*
LXXXIII.	Llwydiart Mountain -	65 9 1	—1,32	65 8 59,75	
	Rhiw Mountain - -	33 24 7,5	—1,15	33 24 6,25	
	Signal Staff, Holyhead	. . .		81 26 54	
	Rhiw Mountain from { Llwydiart Mountain -				191543,9*
	Rhiw Mountain from { Signal Staff, Holyhead				175763,1
LXXXIV.	Llwydiart Mountain -	83 1 35,25	—1,59	83 1 33,75	
	Moel Rhyddlad - -	71 53 58,5	—1,19	71 53 57,25	
	Rhiw Mountain - -	. . .		25 4 29	
	Rhiw Mountain from { Llwydiart Mountain				191540,4*
	Rhiw Mountain from { Moel Rhyddlad -				200022
LXXXV.	Moel Rhyddlad - -	47 53 3,75	—1,47	47 53 2,25	
	Rhiw Mountain - -	49 29 29	—1,5	49 29 27,5	
	Snowdon - - -	. . .		82 37 30,25	
	Rhiw Mountain from { Moel Rhyddlad				200017,7*
	Rhiw Mountain from { Snowdon -				149608,4
LXXXVI.	Moel Rhyddlad - -	78 24 43	—1,12	78 24 41,75	
	Llwydiart Mountain -	78 18 19,5	—1,11	78 18 18,5	
	Ynaliog Mountain -	. . .		23 16 59,75	
	Ynaliog Mountain from { Moel Rhyddlad -				211568,7*
	Ynaliog Mountain from { Llwydiart Mountain				211649,7

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
LXXXVII.	Moel Rhyddlad - -	6 30 44,5	—0,22	6 30 44,25	
	Rhiw Mountain - -	112 59 8,75	—1,65	112 59 7	
	Ynaliog Mountain -			60 30 8,75	
	Ynaliog Mountain from { Moel Rhyddlad				211562,5*
	Ynaliog Mountain from { Rhiw Mountain				26063,2
LXXXVIII.	Moel Rhyddlad - -	48 35 21,75	—0,10	48 35 21,75	
	Llwydiart Mountain -	95 4 5	—1,18	95 4 3,75	
	Bwlch Mawr - - -			36 20 34,5	
	Bwlch Mawr from { Moel Rhyddlad -				143545,3*
	Bwlch Mawr from { Llwydiart Mountain				108077,8
LXXXIX.	Moel Rhyddlad -	23 18 36,75	—0,26	23 18 36,5	
	Rhiw Mountain - -	39 47 36,25	—0,38	39 47 35,75	
	Bwlch Mawr - -			116 53 47,75	
	Bwlch Mawr from { Moel Rhyddlad				143544,4*
	Bwlch Mawr from { Rhiw Mountain				88749,9
XC.	Rhiw Mountain - -	67 56 45,75	—0,93	67 56 44,75	
	Pengarn Mountain -	36 35 43,5	—0,73	36 35 42,75	
	Bwlch Mawr - - -			75 27 32,5	
	Pengarn Mountain from { Rhiw Mountain				144101,3*
	Pengarn Mountain from { Bwlch Mawr -				137976,8
XCI.	Rhiw Mountain - -	58 14 49,5	—1,40	58 14 48	
	Pengarn Mountain -	62 48 16,25	—1,46	62 48 14,75	
	Snowdon - - - -			58 56 57,25	
	Pengarn Mountain from { Rhiw Mountain				144101,6*
	Pengarn Mountain from { Snowdon - -				143027,1

Mean distance from Pengarn Mountain to Rhiw Mountain 144101,4 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
XCII.	Aberystwith Station –	45 23 56,5	—0,22	45 23 56,25	
	Pengarn Mountain -	107 56 47,5	—2,20	107 56 45,25	
	Rhiw Mountain - -	26 39 20		26 39 18,5	
		180 0 4			
	Aberystwith from	{ Rhiw Mountain -			192534,5*
		{ Pengarn Mountain			90794
XCIII.	Rhiw Mountain - -	84 54 5,5	- -	84 54 2	
	Aberystwith - - -	39 44 28	- -	39 44 26,5	
	Snowdon - - -	. . .	- -	55 21 31,5	
	Aberystwith from	{ Rhiw Mountain -			192530,4*
		{ Snowdon - -			233088,1

Mean distance from Aberystwith station to Rhiw Mountain 192532,5 feet.

XCIV.	Aberystwith - - -	60 6 50		60 6 48,5	
	Rhiw Mountain - -	32 57 28		32 57 27,5	
	Cader Idris - - -	. . .		86 55 44	
	Cader Idris from	{ Aberystwith -			104891,8
		{ Rhiw Mountain -			167168,5*
XCV.	Rhiw Mountain - -	6 18 12	+0,09	6 18 12	
	Pengarn Mountain -	140 14 21	—2,26	140 14 18,75	
	Cader Idris - - -	. . .		33 27 29,25	
	Cader Idris from	{ Rhiw Mountain -			167171,4*
		{ Pengarn Mountain			28696,5

The distance from Rhiw Mountain to Snowdon, viz. 149603,4 feet, and the distance of Cader Idris from Rhiw Mountain, as found by the above triangle, viz. 167171,4 feet, together with the included angle at the latter station, give 139622,7 feet for the distance between Snowdon and Cader Idris.

Distance from Cyrn y Brain Mountain to Garreg Mountain 97450 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
XCVI.	Cyrn y Brain Mountain	112 12 59	—2,55	112 12 47,5	
	Garreg Mountain -	41 30 7	—0,16	41 30 7	
	Arran Fowddy - -	. . .		26 17 5,5	
	Arran Fowddy Mountain from { Cyrn y Brain Mountain				145821,6*
	Arran Fowddy Mountain from { Garreg Mountain -				203727,7

Distance from Long Mountain to Cyrn y Brain Mountain 144778,5 feet.

XCVII.	Cyrn y Brain Mountain	58 48 27,5	—1,39	58 48 26	
	Long Mountain -	60 57 38	—1,42	60 57 36,5	
	Arran Fowddy -	. . .		60 13 57,5	
	Arran Fowddy Mountain from { Cyrn y Brain Mountain				149818,1*
	Arran Fowddy Mountain from { Long Mountain -				142673,8

Distance from Long Mountain to Stow Hill 104104,3 feet.

XCVIII.	Long Mountain -	54 0 22,75	—0,69	54 0 22	
	Stow Hill - -	67 32 20	—0,80	67 32 19	
	Llandinam Mountain or Peggwns Fawr -	58 27 20	—0,72	58 27 19	
		180 0 2,75			
	Llandinam Mountain from { Long Mountain				112887,7
	Llandinam Mountain from { Stow Hill -				98832,9

XCIX.	Llandinam Mountain	93 14 18	—1,10	93 14 17	
	Long Mountain -	33 16 39	—0,49	33 16 38,5	
	Radnor Forest - -	53 29 5	—0,46	53 29 4,5	
		180 0 2			
	Radnor Forest from { Llandinam Mountain				77069,6*
	Radnor Forest from { Long Mountain -				140236,4

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
c.	Llandinam Mountain	34 46 58	—0,24	34 46 57,75	
	Stow Hill -	51 3 12	—0,24	51 3 11,75	
	Radnor Forest -	94 9 50	—0,56	94 9 50,5	
		180 0 0			
	Radnor Forest from {			Llandinam Mountain	77068,8*
				Stow Hill - -	56530
c1.	Llandinam Mountain	77 33 7	—0,61	77 33 6,5	
	Radnor Forest -	57 22 2	—0,53	57 22 1,5	
	Dwggan Mountain -	. . .		45 4 52	
	Dwggan Mountain from {			Llandinam Mountain	91665,4
				Radnor Forest -	108279,3
	Distance from Stow Hill to Cradle Mountain 152928,4 feet.				
cII.	Stow Hill - -	40 54 57,25	+0,26	40 54 57,5	
	Radnor Forest - -	120 30 47	—1,53	120 30 45,5	
	Cradle Mountain -	. . .		18 34 17	
	Radnor Forest from {			Stow Hill -	56534,6*
				Cradle Mountain	116260,7
cIII.	Long Mountain -	67 58 3,25	—1,24	67 58 2	
	Llandinam Mountain	65 49 26	—1,53	65 49 24,5	
	Arran Fowddy -	. . .		46 12 33,5	
	Arran Fowddy from {			Long Mountain	142665,2*
				Llandinam Mountain	144961
cIV.	Llandinam Mountain	54 55 22	—0,46	54 55 21,5	
	Plynlimmon - -	92 2 9,5	—1,23	92 2 8,25	
	Arran Fowddy -	. . .		33 2 30,25	
	Plynlimmon from {			Llandinam Mountain	79089,9*
				Arran Fowddy -	118707,7

Mean distance from Llandinam Mountain to Radnor Forest 77069,2 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
cv.	Llandinam Mountain	146 0 51,75	−2,31	146 0 49,5	
	Plynlimmon - -	16 46 1,25	40,73	16 46 2	
	Radnor Forest -	. . .		17 13 8,5	
	Plynlimmon from { Llandinam Mountain				79083,9*
	Plynlimmon from { Radnor Forest - -				149336,8

The distance from Llandinam Mountain to Long Mountain is 112887,7 feet, and from Plynlimmon 79089,9 feet. These distances, with the included angle at Llandinam Mountain, viz. 120° 44′ 48″,5 give 167714,3 feet for the distance between Long Mountain and Plynlimmon.

cvi.	Long Mountain -	57 5 6		57 5 4,5	
	Plynlimmon - -	64 3 40,5		64 3 39	
	Arrennig - -	. . .		58 51 16,5	
	Arrennig from { Long Mountain -				176219,4*
	Arrennig from { Plynlimmon -				164503,7
cvii.	Long Mountain -	29 5 39	−0,92	29 5 38	
	Plynlimmon - -	85 5 20	−1,57	85 5 18,5	
	Cader Idris -	. . .		65 49 3,5	
	Cader Idris from { Long Mountain				183172,6
	Cader Idris from { Plynlimmon -				89394,5*

Distance from Aberystwith Station to Cader Idris 104891,8 feet.

cviii.	Aberystwith - -	57 53 27,5		57 53 27	
	Plynlimmon -	83 35 11,5		83 35 11	
	Cader Idris - -	. . .		38 31 22	
	Plynlimmon from { Aberystwith -				65740,7
	Plynlimmon from { Cader Idris -				89406,8*

The distance from Garreg Mountain to Snowdon is 188872,5 feet, and from Arrennig 168780,8 feet. The included angle at Garreg Mountain is 28° 54′ 0″. These data give 91343,2 feet for the distance from Arrennig to Snowdon. Also

The distance from Long Mountain to Arrennig is 176229,8 feet, and from Cader Idris 183172,6 feet. These, with the included angle at Long Mountain, viz. 27° 59′ 26″ give 87179,2 feet for the distance between Arrennig and Cader Idris.

Distance from Bar Beacon to The Wrekin 146522,5 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	
cix.	Bar Beacon - -	26 47 0	—0,62	26 46 59,5	Feet.
	Brown Clay Hill -	68 11 15,75	—0,71	68 11 15	
	The Wrekin - -	. . .		85 1 45,5	
				Brown Clay Hill from { Bar Beacon	157228
				{ The Wrekin	71116,9

The distance from Brown Clay Hill to Bar Beacon is 157228 feet, and from the station on Malvern Hills 147682,1 feet. The included angle at Brown Clay Hill corrected for calculation is 79° 51′ 34″. These data give 195843 feet for the distance between Bar Beacon and the station on Malvern Hills, and 47° 55′ 41″,6 for the angle at Bar Beacon between Brown Clay Hill and Malvern Hills. Again,

The distance from Corley to Broadway Beacon is 171568 feet, and from Bar Beacon 87132,7 feet. The angle at Corley, between Broadway Beacon and Bar Beacon, is 96° 33′ 50″. This angle and these sides give 201110,7 feet for the distance between the two last stations, and 57° 56′ 31″,5 for the angle at Bar Beacon between Corley and Broadway Beacon.

Now the angle at Bar Beacon between Corley and Brown Clay Hill was observed, and found to be 140° 7′ 5″. And if from this angle we subtract the two angles at Bar Beacon, as just found, viz. 47° 55′ 41″,5 and 57° 56′ 31″,5, we shall get 34° 14′ 52″ for the angle at Bar Beacon between Broadway Beacon and the station on Malvern Hills. The distances from Bar Beacon to those two stations, are 201110,7 feet and 195843 feet respectively. These, with the angle at Bar Beacon, 34° 14′ 25″ give 116986,8 feet for the distance between Broadway Beacon and the station on Malvern Hills.

It may not be, perhaps, improper to state in this place, that a station towards the centre of this pentagon was chosen for the purpose of subdividing it into the necessary triangles. The spot selected was near Waltham, and observed from Broadway Beacon and Bar Beacon, forming the following triangle.

cx.	Broadway Beacon -	16 31 57
	Bar Beacon - -	39 4 45
	Waltham - -	. . .

from which, with the distance between Bar Beacon and Broadway Beacon, viz. 201110,7 feet, we get 153628,4 feet for the distance between Broadway Beacon and Waltham Hill, and 69348 feet between Bar Beacon and Waltham Hill.

When the party with the instrument were at the station on Brown Clay Hill, a

staff was erected over what was supposed to be the true station on Waltham Hill. It was accordingly observed; but, after the instrument was removed, some suspicions being entertained as to the identity of the point, the person appointed to fix the staff, stated that he could not find the marks put into the ground for distinguishing the station, and therefore chose another station as near to the former one as he well could guess. This, however, not being satisfactory, and the station conceived to be really lost, the instrument was not taken to Waltham Hill.

Distance from Stow on the Wold to Broadway Beacon 52203,2 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CXI.	Stow on the Wold -	51 44 55,75	—0,19	51 44 55,5	
	Broadway Beacon -	78 53 7,75	—0,27	78 53 7,5	
	Cleeve - -	49 21 57,75	—0,17	49 21 57	
		180 0 1,25			
	Cleeve from {	Stow on the Wold -			67499,3
		Broadway Beacon -			54020,6
CXII.	Broadway Beacon -	59 28 16	—0,4	59 28 16	
	Cleeve - -	93 4 9	—0,21	93 4 9	
	Malvern Hills -	27 27 35	—0,19	27 27 35	
		180 0 0			
	Malvern Hills from {	Cleeve - -			100909,6
		Broadway Beacon			116981,7*
CXIII.	Malvern Hills -	64 46 19	—0,59	64 46 18,5	
	Cleeve - -	48 29 40,5	—0,61	48 29 40	
	May Hill - -	66 44 2	—0,41	66 44 1,5	
		180 0 1,5			
	May Hill from {	Malvern Hill -			82260*
		Cleeve - -			99365,2

Distance from Cradle Mountain to Malvern Hills 185023,2 feet.

CXIV.	May Hill - -	97 43 34	—1,63	97 43 32,25	
	Malvern Hill - -	56 8 17,25	—0,53	56 8 16,75	
	Cradle Mountain -	26 8 11		26 8 11	
		180 0 2,25			
	May Hill from {	Cradle Mountain			155047,6
		Malvern Hills -			82251,1*

From the triangle Malvern Hills, Cleeve, and May Hill, we find the distance from May Hill to the station on Malvern Hills is 82260 feet, which distance is found by using in calculation the base on Hounslow Heath; but in the last triangle, the distance between those two stations is found to be 82251,1 feet, which determination is the result of computing with the base line recently measured on Rhuddlan Marsh.

The mean distance, therefore, between May Hill and Malvern Hills is 82255,6 feet, which, used in the last triangle, gives 185033,4 feet for the side Cradle Mountain and Malvern Hills, and 155056,1 feet for the side Cradle Mountain and May Hill.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
cxv.	Malvern Hills - -	40 14 17	—1,07	40 14 16	
	Trelleg Beacon -	83 11 45,5	—1,92	83 11 43,5	
	Cradle Mountain -	. . .		56 34 0,5	
	Trelleg Beacon from { Malvern Hill -				155511,2
	Trelleg Beacon from { Cradle Mountain				120372,3*
cxvi.	May Hill - -	49 56 24,25	—0,26	49 56 24	
	Trelleg Beacon -	92 37 48	—0,87	99 37 47	
	Cradle Mountain -	. . .		30 25 49	
	Trelleg Beacon from { Cradle Mountain				120371,3*
	Trelleg Beacon from { May Hill -				79656,6
cxvii.	May Hill - -	69 12 37,75	—0,56	69 12 36	
	Trelleg Beacon -	59 21 23	—0,51	59 21 21,5	
	Symmond's Hall -	51 26 4	—0,47	51 26 2,5	
		180 0 4,75			
	Symmond's Hall from { May Hill -				87650
	Symmond's Hall from { Trelleg Beacon				95243,5
cxviii.	Symmond's Hall -	69 15 59	—1,13	69 15 58	
	Malvern Hills - -	34 56 38,25	—0,88	34 56 37,25	
	Trelleg Beacon -	75 47 26	—1,13	75 47 24,75	
		180 0 3,25			
	Symmond's Hall from { Malvern Hills -				161192,7
	Symmond's Hall from { Trelleg Beacon				95240,5*

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
cxix.	Trelleg Beacon -	56 17 9,25	—0,6	56 17 8,75	
	Mynydd Mane -	78 56 8	—0,84	78 56 7	
	Cradle Mountain -	. . .		44 46 44,25	
	Mynydd Mane from { Trelleg Beacon -				86392,7
	Mynydd Mane from { Cradle Mountain				102023,6
cxx.	Mynydd Mane -	89 22 39,25	—1,34	89 22 38	
	Llangeinor Mountain	42 1 14	—0,66	42 1 13,25	
	Cradle Mountain -	. . .		48 36 8,75	
	Llangeinor Mountain from { Cradle Mountain				152403,1
	Llangeinor Mountain from { Mynydd Mane				114330,3
cxxi.	Mynydd Mane - -	37 25 37,5	—0,15	37 25 37,25	
	Llangeinor Mountain	35 36 25	—0,17	35 36 25	
	Garth Hill - -	106 57 58,5	—0,79	106 57 57,75	
		180 0 1			
	Garth Hill from { Mynydd Mane -				69594,5
	Garth Hill from { Llangeinor Mountain				72646
cxxii.	Llangeinor Mountain	67 3 52,5	—0,36	67 3 53	
	Garth Hill - -	51 2 32	—0,3	51 2 32,5	
	Ogmoor Down - -	61 53 34,5	—0,35	61 53 34,5	
		179 59 59			
	Ogmoor Down from { Llangeinor Mountain				64043
	Ogmoor Down from { Garth Hill -				75847,9

ART. VI. *Junction of the Triangles carried on in South Wales, with those southward of the Severn and Bristol Channel.*

Distance from Moor Lynch to the station on Mendip Hills 78876,8 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CXXIII.	Moor Lynch - -	43 41 45	—0,27	43 41 44,75	
	Mendip - -	61 17 47	—0,29	61 17 46,75	
	Blagdon - -	75 0 29	—0,35	75 0 28,5	
		180 0 1			
	Blagdon from { Moor Lynch -				71622
	Blagdon from { Mendip - -				56410,5
CXXIV.	Mendip - -	33 39 30,5	—0,13	33 39 30,5	
	Blagdon -	91 46 4	—0,33	91 46 4	
	Dundry Beacon -	54 34 24,5	—0,12	54 34 25,5	
		180 0 0			
	Dundry Beacon from { Mendip -				69194,1
	Dundry Beacon from { Blagdon -				38368,5

Distance from Moor Lynch to Pilsdon 118231,8 feet.

CXXV.	Moor Lynch - -	87 15 6		87 15 6	
	Pilsdon - -	33 58 2		33 58 2	
	Bagborough - -	58 46 52		58 46 52	
		180 0 0			
	Bagborough from { Moor Lynch				77243,7
	Bagborough from { Pilsdon -				138092,8
CXXVI.	Moor Lynch - -	117 40 36,75	—1,06	117 40 35,75	
	Bagborough -	29 51 13,25	—0,05	29 51 13,25	
	Blagdon - -	32 28 11,5		32 28 11	
		180 0 1,5			
	Bagborough from { Moor Lynch				77243
	Bagborough from { Blagdon -				127418,5

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CXXVII.	Bagborough -	131 59 32		131 59 32	
	Blagdon - -	19 57 6		19 57 6	
	Dunkery Beacon -	28 3 22		28 3 22	
		180 0 0			
	Dunkery Beacon from { Bagborough				92441,6
	Dunkery Beacon from { Blagdon -				201350
CXXVIII.	Bagborough - -	87 37 19,5		87 37 19	
	Dunkery Beacon -	48 7 46,25		48 7 46	
	Flatholmes Lighthouse	. . .		44 14 55	
	Flatholmes Lighthouse from { Bagborough -				98652,6*
	Flatholmes Lighthouse from { Dunkery Beacon				132367
CXXIX.	Bagborough - -	44 22 19,75	—0,63	44 22 19	
	Blagdon - -	50 29 22	—0,55	50 29 21,5	
	Flatholmes Lighthouse	. . .		85 8 19,5	
	Flatholmes Lighthouse from { Bagborough -				98659*
	Flatholmes Lighthouse from { Blagdon - -				89427,1*
CXXX.	Moor Lynch - -	55 38 59	—0,43	55 38 58,5	
	Blagdon - -	82 57 35	—0,6	82 57 34,5	
	Flatholmes Lighthouse	. . .		41 23 27	
	Flatholmes Lighthouse from { Moor Lynch -				107505,8
	Flatholmes Lighthouse from { Blagdon -				89431,3*

The mean distance from Blagdon to the Flatholmes Lighthouse, viz. 89429,2 feet, and the distance 38368,5 feet from the same station to Dundry Beacon, with their included angle at Blagdon 110° 15′ 49″,75, give 108841 feet for the distance between Dundry Beacon and the Lighthouse.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CXXXI.	Trelleg Beacon -	65 20 25,75	—0,88	65 20 25	
	Symmond's Hall -	70 4 23,5	—0,98	70 4 22,5	
	Dundry Beacon -	. . .		44 35 12,5	
	Dundry Beacon from { Trelleg Beacon				127553,2
	Dundry Beacon from { Symmond's Hall				123303,1
CXXXII.	Trelleg Beacon -	79 23 13,5	—1,04	79 23 12,5	
	Mynydd-Mane - -	63 21 9	—0,71	63 21 8,25	
	Dundry Beacon -	. . .		37 15 39,25	
	Mynydd Mane from Dundry Beacon -				140270,6
CXXXIII.	Ogmoor Down -	109 40 6,75	—1,43	109 40 5,25	
	Garth Hill - -	42 42 28,75	—0,14	42 42 28,5	
	Dunkery Beacon -	. . .		27 37 26,25	
	Dunkery Beacon from { Ogmoor Down				110951,7
	Dunkery Beacon from { Garth Hill -				154039
CXXXIV.	Ogmoor Down -	110 56 49,25	—2,42	110 56 46,75	
	Cefn Bryn - -	31 35 27,25	—0,57	31 35 26,75	
	Dunkery Beacon -	. . .		37 27 46,5	
	Cefn Bryn from { Ogmoor Down				128827,8
	Cefn Bryn from { Dunkery Beacon				197804,7
CXXXV.	Llangeinor Mountain	13 36 8,25	+0,98	13 36 9,25	
	Garth Hill - -	152 52 34	—2,55	152 52 31,5	
	Flatholmes Lighthouse	. . .		13 31 19,25	
	Flatholmes Lighthouse from { Llangeinor Mountain				141653,2
	Flatholmes Lighthouse from { Garth Hill - -				73087,5

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CXXXVI.	Llangeinor Mountain	61 42 51,5		61 42 51,5	
	Garth Hill - -	93 44 58		93 44 58	
	Dunkery Beacon -	. . .		24 32 10,5	
	Dunkery Beacon from Llangeinor Mountain				174562,8

The angle at the station on Llangeinor Mountain 48° 6′ 43″, and the sides Llangeinor Mountain and Dunkery Beacon, Llangeinor Mountain and Flatholmes Lighthouse, as just found, give 132355,6 feet for the distance between Dunkery Beacon and Flatholmes Lighthouse, which deduction is founded on two base lines, viz. that measured on Rhuddlan Marsh, and that measured on Salisbury Plain. In a former triangle, viz. Bagborough, Dunkery Beacon, and Flatholmes Lighthouse, 132367 feet has been assigned for that distance, and proceeding directly from the base on Sedgemoor. The difference between the two results, all circumstances taken into the account, cannot be considered too great, the distance between Dunkery Beacon and the Flatholmes Lighthouse being something more than twenty-five miles.

The angle at Llangeinor Mountain 49° 12′ 34″, with the sides Llangeinor Mountain, Mynydd Mane, and Llangeinor Mountain, Flatholmes Lighthouse, viz. 114330,3 feet, 141653,2 feet respectively, give 109437 feet for the distance between Mynydd Mane and the lighthouse on the Flatholmes, and 78° 30′ 56″,5 for the angle at Mynydd Mane. This angle taken from the observed angle at Mynydd Mane between Llangeinor Mountain and Dundry Beacon 128° 20′ 3″,7, leaves 49° 49′ 7″ for the corrected angle between Dundry Beacon and the Lighthouse; which, with the side Mynydd Mane Dundry Beacon 140270,6 feet, and the side Mynydd Mane Flatholmes Lighthouse 109437 feet give 108827,1 feet for the distance from Dundry Beacon to the Lighthouse. This distance, previously computed and depending on the Sedgemoor base, is stated to be 108841 feet. Having thus joined the triangles north and south of the Severn and Bristol Channel, it will be now convenient to proceed with the calculation of the sides of the series proceeding from Ogmoor Down and Cefn Bryn along the southern coast of Wales.

CXXXVII.	Cefn Bryn - -	19 57 52	—0,11	19 57 52	
	Ogmoor Down -	43 7 52,75	—0,01	43 7 52,5	
	Margam Down -	116 54 16,5	—0,99	116 54 15,5	
		180 0 1,25			
	Margam Down from { Cefn Bryn . -				98765,8
	Ogmoor Down .				49325,3*

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CXXXVIII.	Llangeinor Mountain	50 3 4,25	—0,08	50 3 4,25	
	Ogmoor Down -	34 21 34,25	—0,18	34 21 33,5	
	Margam Down - -	95 35 22,5	—0,23	95 35 22,25	
		180 0 1			
	Margam Down from { Llangeinor Mountain				36317,3
	Ogmoor Down -				49331,1*
CXXXIX.	Margam Down - -	32 1 12	—0,37	32 1 11	
	Cefn Bryn - -	91 3 16,25	—0,35	91 3 15	
	Lannon - -	56 55 34,5	—0,34	56 55 34	
		180 0 2,75			
	Lannon from { Margam Down -				117843,6*
	Cefn Bryn -				62492,6
CXL.	Lannon - -	90 51 8	—0,34	90 51 7,5	
	Cefn Bryn - -	57 55 38,25	—0,44	57 55 38	
	Marros Beacon -	31 13 15	—0,36	31 13 14,5	
		180 0 1,25			
	Marros Beacon from { Lannon -				102163
	Cefn Bryn				120551,1
CXLI.	Marros Beacon -	115 22 29,5	—1,56	115 22 28	
	Lannon - -	28 46 25,25	—0,13	28 46 25	
	Precelly Top -	35 51 6,75	—0,15	35 51 7	
		180 0 1,5			
	Precelly Top from { Marros Beacon				83962,5
	Lannon -				157603
CXLII.	Marros Beacon -	83 40 20		83 40 20	
	Precelly Top - -	47 19 13		47 19 13	
	Highgate Mountain -	49 0 27,5		49 0 27	
		180 0 0,5			
	Highgate Mountain from { Marros Beacon				81773,5
	Precelly Top				110560,7

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXIII.	Highgate Mountain -	36 39 47		36 39 47	
	Plumstone Down -	98 31 13		98 31 13	
	Precelly Top - -	. . .		44 49 0	
	Plumstone Down from { Highgate Mountain				78797,4
	Plumstone Down from { Precelly Top -				66753,5
CXLIV.	Precelly Top - -	20 26 6		20 26 6	
	Plumstone Down -	140 0 42,75		140 0 41	
	St. Ann's Hill - -	19 33 13		19 33 13	
		180 0 1,75			
	St. Ann's Hill from { Precelly Top -				128173,9
	St. Ann's Hill from { Plumstone Down				69637

At Precelly Top, the angle between St. Ann's Hill and Highgate Mountain is 24° 22′ 54″. The distances from Precelly Top to those stations are 128173,9 feet and 110560,7 feet respectively. These data give 53271,6 feet for the distance between St. Ann's Hill and Highgate Mountain.

CXLV.	Marros Beacon -	19 5 59,75		19 6 0	
	Highgate Mountain -	58 6 20,5		58 6 20	
	Newton Down -	102 47 40,5		102 47 40	
		180 0 0,75			
	Newton Down from { Marros Beacon -				71195,3*
	Newton Down from { Highgate Mountain				127439
CXLVI.	Marros Beacon -	64 34 25		64 34 25	
	Precelly Top - -	50 17 43		50 17 43	
	Newton Down -	65 7 51,5		65 7 52	
	Newton Down from { Marros Beacon -				71198,2*
	Newton Down from { Precelly Top -				183579,8

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CXLVII.	Precelly Top - -	41 50 29	-	41 50 29	
	Plumstone Down -	85 23 56,5	-	85 23 57	
	Newton Down - -	52 45 34,5	-	52 45 34	
		180 0 0			
	Newton Down from {			Precelly Top -	83580,6*
				Plumstone Down	55934,4*
CXLVIII.	Plumstone Down - -	54 36 44	-	54 36 44	
	St. Ann's Hill - -	50 45 37	-	50 45 37	
	Newton Down -	74 37 39,25	-	74 37 39	
		180 0 0,25			
	Newton Down from {			Plumstone Down	55935,4*
				St. Ann's Hill	58878,1
	Distance from Margam Down to Llangeinor Mountain 36317,3 feet.				
CXLIX.	Margam Down -	56 39 50,5	—0,05	56 39 50,5	
	Llangeinor Mountain	104 20 9,5	—0,55	104 20 9	
	Trecastle Beacon -	. . .		19 0 0,5	
	Trecastle Beacon from {			Margam Down -	108076,2
				Llangeinor Mountain	93195,7
CL.	Margam Down -	58 49 18	—0,83	58 49 17,25	
	Lannon - -	56 12 10,5	—0,81	56 12 9,75	
	Trecastle Beacon -	. . .		64 58 33	
	Lannon from {			Margam Down -	117843,1*
				Trecastle Beacon -	111268,8
CLI.	Lannon - -	74 9 13	—0,81	74 9 12,25	
	New Inn Hill -	63 13 18,25	—0,69	63 13 17,5	
	Trecastle Beacon -	. . .		42 37 30,25	
	New Inn Hill from {			Trecastle Beacon	119898,7
				Lannon - -	84402,8*

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLII.	Lannon - -	53 5 25	—0,59	53 5 24,5	
	Precelly Top -	32 15 36,75	—0,58	32 15 36,75	
	New Inn Hill - -	94 38 58,75	—0,08	94 38 58,75	
		180 0 0,5			
	New Inn Hill from { Lannon -				84400,8*
	New Inn Hill from { Precelly Top				126432,6
CLIII.	Precelly Top - -	29 42 12	—0,34	29 42 12	
	New Inn Hill - -	59 49 29	—0,42	59 49 28,5	
	Capel Kynon - -	90 28 20,25	—0,8	90 28 19,5	
		180 0 1,25			
	Capel Kynon from { Precelly Top				109303,4
	Capel Kynon from { New Inn Hill				62650,6
CLIV.	Capel Kynon - -	. . .		88 13 0,25	
	New Inn Hill -	47 8 36	—0,26	47 8 35,75	
	Talsarn - -	44 38 24,25	—0,24	44 38 24	
	Talsarn from { Capel Kynon -				65361,8
	Talsarn from { New Inn Hill -				89120,2*
CLV.	Precelly Top - -	. . .		29 12 47	
	New Inn Hill -	106 58 5	—1,11	106 58 4	
	Talsarn - -	43 49 9	+0,06	43 49 9	
	Talsarn from { Precelly Top -				174655,6
	Talsarn from { New Inn Hill -				89121,7*
CLVI.	New Inn Hill -	95 9 38,5	—0,54	95 9 38	
	Talsarn - -	50 4 50,25	—0,27	50 4 50	
	Trecastle Beacon -	. . .		34 45 32	
	Talsarn from Trecastle Beacon -				155698,6

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLVII.	Talsarn -	56 46 43	—0,33	56 46 42,75	
	Tregarron Down -	98 53 11	—1,15	98 53 10	
	Trecastle Beacon -	. . .		24 20 17,25	
	Tregarron Down from { Talsarn -				64945,7*
	Tregarron Down from { Trecastle Beacon				131832,6
	Distance from Aberystwith to Plynlimmon 65740,7 feet.				
CLVIII.	Aberystwith - -	66 50 30	—0,4	66 50 29,5	
	Plynlimmon - -	68 46 0	—0,46	68 45 59,5	
	Tregarron Down -	44 23 31,5	—0,32	44 23 31	
		180 0 1,5			
	Tregarron Down from { Aberystwith				87594,4
	Tregarron Down from { Plynlimmon				86401,7
CLIX.	Aberystwith - -	45 36 55	—0,31	45 36 54	
	Tregarron Down -	59 51 8	—0,35	59 51 6	
	Talsarn - -	74 32 1,5	—0,46	74 32 0	
		180 0 4,5			
	Talsarn from { Aberystwith -				78591,5
	Talsarn from { Tregarron Down				64952*
CLX.	Plynlimmon - -	87 12 51	—0,75	87 12 50,25	
	Llandinam Mountain -	49 3 8	—0,38	49 3 7,5	
	Tregarron Down -	43 44 2	—0,33	43 44 2,25	
		180 0 1			
	Tregarron Down from { Plynlimmon - -				86411,3
	Tregarron Down from { Llandinam Mountain				114270,5
CLXI.	Llandinam Mountain -	49 37 26,5	—1,38	49 37 25	
	Tregarron Down -	96 31 45	—2,05	96 31 43	
	Capellante - -	. . .		33 50 52	
	Capellante from { Llandinam Mountain				203827,2
	Capellante from { Tregarron Down -				156290,2

The angle at Stow Hill, between Llandinam Mountain and Cradle Mountain, is 91° 58′ 6″. The distances from Stow Hill to those stations are 98832,9 feet and 152928,4 feet respectively. From these data, we get 184914,3 feet for the distance between Llandinam Mountain and Cradle Mountain, and 55° 44′ 40″ for the angle at the former station. The observed angle at Llandinam Mountain between Stow Hill and Capellante is 82° 7′ 18″: from which, subtracting 55° 44′ 40″, we get 26° 22′ 38″ for the angle between Capellante and Cradle Mountain. This angle, with the distances 184914,3 feet and 203827,2 feet, give 90585,6 feet for the distance from Cradle Mountain to Capellante.

Distance from Mynydd Mane to Llangeinor Mountain 114330,3 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
					Feet.
CLXII.	Mynydd Mane -	41 35 36,25	—0,6	41 35 35,75	
	Llangeinor Mountain	71 54 47,5	—0,81	71 54 46,75	
	Capellante - -	. . .		66 29 37,5	
	Capellante from { Mynydd Mane - -				118515,7
	Capellante from { Llangeinor Mountain .				82765

The observed angle at Mynydd Mane, between Cradle Mountain and Capellante, is 47° 47′ 3″, and the distances from Mynydd Mane to those stations 102023,4 feet and 118515,7 feet respectively. Hence we find the distance from Capellante to Cradle Mountain 90585,8 feet. The previous determination is 90585,6 feet. The angle at Llangeinor Mountain is 31° 1′ 40″. The distances of that station from Trecasle Beacon and Capellante are 93195,7 feet and 82765 feet. This angle and those sides give 48125,8 feet for the distance between the latter stations.

ART. VII. *Calculation of the Sides of the principal Triangles proceeding from the northern Parts of Wales and Cheshire, through Lancashire and the northern Parts of Derbyshire into Yorkshire.*

Distance from Llanelian Mountain to Cyrn y Brain Mountain 145773,8 feet.

CLXIII.	Llanelian Mountain -	55 42 37,75	—1,9	55 42 35,75	
	Cyrn y Brain Mountain	86 53 48	—4,45	86 53 43,5	
	Billinge Beacon -	. . .		37 23 40,75	
	Billinge Beacon from { Llanelian Mountain -				239683
	Billinge Beacon from { Cyrn y Brain Mountain				198316,3

Cyrn y Brain Mountain from Delamere Forest 126431,6 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXIV.	Cyrn y Brain Mountain	27 41 46,75	—0,12	27 41 46,5	
	Delamere Forest -	118 4 28	—2,7	118 4 25,25	
	Billinge Beacon - -	34 13 47,75	+0,5	34 13 48,25	
		180 0 2,5			
	Billinge Beacon from { Cyrn y Brain Mountain				198315,8*
		Delamere Forest -			104465,1

Delamere Forest from Garreg Mountain 137294 feet.

CLXV.	Delamere Forest -	74 56 56	—1,26	74 56 54,75	
	Garreg Mountain -	42 28 45,5	—0,92	42 28 44,5	
	Billinge Beacon -	. . .		62 34 28,75	
	Billinge Beacon from { Delamere Forest -				104462
		Garreg Mountain -			149374,3

Mean distance from Delamere Forest to Billinge Beacon 104463,5 feet.

CLXVI.	Heswell Hill - -	61 10 55,75	—0,62	61 10 55,25	
	Billinge Beacon -	56 47 7,25	—0,69	56 47 6,5	
	Delamere Forest -	. . .		62 1 58,25	
	Heswell Hill from { Delamere Forest				99750,3*
		Billinge Beacon			105305,7*
CXLVII.	Delamere Forest -	56 2 30	—0,76	56 2 29,25	
	Heswell Hill - -	74 28 39,5	—0,96	74 28 38,5	
	Cyrn y Brain Mountain	. . .		49 28 52,25	
	Heswell Hill from { Delamere Forest - -				99750,8*
		Cyrn y Brain Mountain -			108837,6

The distances from Cyrn y Brain Mountain to Heswell Hill and Garreg Mountain are 108837,6 feet and 97450 feet. The included angle at Cyrn y Brain Mountain is 24° 54′ 22″. These data give 45852,5 feet for the distance between Garreg Mountain and Heswell Hill, which distance is here found, as the same will be used in fixing the situations of several interior points.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXVIII.	Billinge Beacon	24 5 16,25	+0,06	24 5 16,25	
	Belle-field Hill	126 53 18,25	−0,79	126 53 17,5	
	Delamere Forest	29 1 26,25		29 1 26,25	
		180 0 0,75			
	Belle-field Hill from { Delamere Forest				53307,1
	Belle-field Hill from { Billinge Beacon				63369,2
CLXIX	Billinge Beacon	80 52 23,5	−0,62	80 52 23	
	Belle-field Hill	65 49 38,5	−0,47	65 49 38	
	Heswell Hill	. . .		33 17 59	
	Heswell Hill from { Billinge Beacon				105301,3*
	Heswell Hill from { Belle-field Hill				113961,3
CLXX.	Delamere Forest	114 8 32	−2,09	114 8 30	
	Billinge Beacon	34 1 8,5	−0,17	34 1 8,25	
	Mow Copt	. . .		31 50 21,75	
	Mow Copt from { Delamere Forest				110785,8
	Mow Copt from { Billinge Beacon				180701

The distance from Delamere Forest to Mow Copt, as formerly found, is 110780,5 feet. The last triangle being recomputed, and the mean distance from Delamere Forest to Mow Copt, viz. 110783,1 feet being taken as its base, we get 180696,4 feet for the distance between Billinge Beacon and Mow Copt.

CLXXI.	Billinge Beacon	83 9 46,75	−2,09	83 9 44,75	
	Wittle Hill	62 46 19	−1,4	62 46 17,5	
	Mow Copt	. . .		34 3 57,75	
	Wittle Hill from { Billinge Beacon				113830,4
	Wittle Hill from { Mow Copt				201769,4

Mean distance from Billinge Beacon to Heswell Hill 105303,5 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXXII.	Billinge Beacon	62 54 17,75	—0,25	62 54 19,75	
	Heswell Hill	26 17 30,25	—0,25	26 17 30	
	Go Hill - -	90 48 10,75	—0,5	90 48 10,25	
		179 59 58,75			
	Go Hill from { Billinge Beacon -				46647,8
	Go Hill from { Heswell Hill -				93756,3
CLXXIII.	Billinge Beacon -	108 16 15,25	—0,48	108 16 14,75	
	Go Hill -	41 51 23,75	—0,17	41 51 23,5	
	Rivington Hill -	. . .		29 52 21,75	
	Rivington Hill from { Billinge Beacon				62493,7*
	Rivington Hill from { Go Hill - -				88934,6
CLXXIV.	Billinge Beacon -	107 57 2,75	—0,63	107 57 2	
	Belle-field Hill -	35 44 1	—0,12	35 44 1	
	Rivington Hill -	. . .		36 18 57	
	Rivington Hill from { Billinge Beacon				62489,9*
	Rivington Hill from { Belle-field Hill				101791,6
CLXXV.	Billinge Beacon -	71 42 21	—0,39	71 42 20,5	
	Go Hill - -	90 14 44,75	—0,78	90 14 44	
	Bleasdale Forest -	. . .		18 2 55,5	
	Bleasdale Forest from { Billinge Beacon				150560,2
	Bleasdale Forest from { Go Hill - -				142951,6
CLXXVI.	Billinge Beacon -	51 25 20,25	—0,88	51 25 19,25	
	Wittle Hill - -	80 23 7,5	—1,34	80 23 6,25	
	Bleasdale Forest -	. . .		48 11 34,5	
	Wittle Hill from { Billinge Beacon				113825,5*
	Wittle Hill from { Bleasdale Forest				119379

Mean distance from Billinge Beacon to Rivington Hill 62491,8 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXXVII.	Billinge Beacon -	14 51 26	+0,42	14 51 26,5	
	Wittle Hill - -	16 41 45	+0,45	16 41 45,5	
	Rivington Hill -	. . .		148 26 48	
	Wittle Hill from { Billinge Beacon -				113826,1*
		Rivington Hill -			55774,9

From the triangle Billinge Beacon, Mow Copt, and Wittle Hill, recomputed with 113827,4 feet, the mean distance from Wittle Hill to Billinge Beacon, we get 201764,2 feet for the mean distance between Wittle Hill and Mow Copt to be used as the base in the following triangle.

CLXXVIII.	Wittle Hill -	20 22 26,75	—0,61	20 22 26,13	
	Axedge - -	103 20 32	—1,92	103 18 30	
	Mow Copt - -	. . .		56 37 3,75	
	Axedge from { Wittle Hill -				172914,2
		Mow Copt - -			72093,5

CLXXIX.	Weaver Hill -	50 35 54,11	—0,39	50 55 53,75	
	Axedge - -	67 27 56	—0,45	67 17 55,5	
	Mow Copt - -	. . .		61 46 10,75	
	Weaver Hill from { Mow Copt -				85663,2*
		Axedge -			81811,8*

The distance from Weaver Hill to Mow Copt, as found in the triangle Weaver Hill, Ashley Heath, Mow Copt, is 88668,3 feet, and by the above 85663,2 feet; the mean of which is 85665,6 feet, which used in computing the triangles, Mow Copt, Weaver Hill, and Ashley Heath; and Ashley Heath, Weaver Hill, and Castle Ring gives 111144,8 feet for the distance between Weaver Hill and Castle Ring, a determination altogether depending on the recently measured base line. This mean distance differs only $\frac{1}{10}$ths of a foot from that found by the series of triangles carried on from Misterton Carr.

No. of Triangles.	Names of Stations.		Observed Angles.	Diff.	Angles corrected for Calculation.		Distances.
			° ′ ″	″	° ′ ″		Feet.
CLXXX.	Wittle Hill -	-	37 7 29,5	−0,46	37 7 29		
	Axedge -	-	30 42 14	+0,19	30 42 14		
	Holme Moss -	-			112 10 17		
					Holme Moss from {	Wittle Hill -	95339,7
						Axedge -	112695,5

The sides Orpit Heights and Hathersage, and Orpit Heights and Weaver Hill, viz. 101660,3 feet, and 71095,7 feet, with their included angle 97° 49′ 56″, give 131754,5 feet for the distance between Hathersage and Weaver Hill. The angles at Weaver Hill and Hathersage are then found to be 49° 51′ 10″, and 32° 18′ 54″ respectively.

CLXXXI.	Hathersage -	-	67 29 48,5		67 29 47,5		
	Weaver Hill -	-	23 28 15		23 28 14,5		
	Lord's Seat -	-	89 1 59		89 1 58		
			180 0 0,25				
					Lord's Seat from {	Hathersage -	52482,6
						Weaver Hill -	121740
CLXXXII.	Hathersage -	-	30 12 46		30 12 46		
	Lord's Seat -	-	117 19 51		117 19 51		
	Axedge -	-			32 27 23		
					Axedge from {	Hathersage -	86878,2
						Lord's Seat -	49212,5
CLXXXIII.	Boulsworth Hill -		76 12 12,75	−0,75	76 12 12		
	Wittle Hill -	-	72 3 55	−0,29	72 3 54,75		
	Bleasdale Forest -				31 43 53,25		
					Boulsworth Hill from {	Wittle Hill -	64650,8
						Bleasdale Forest	116951,5

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXXXIV.	Boulsworth Hill -	45 51 56,5	—0,81	45 51 55,75	
	Ingleborough - -	54 11 29,75	—0,82	54 11 29	
	Bleasdale Forest -	. . .		79 56 35,25	
	Ingleborough from { Boulsworth Hill -				141995*
	Ingleborough from { Bleasdale Forest -				103501,1
CLXXXV.	Wittle Hill - -	37 17 23	—0,18	37 17 22,75	
	Boulsworth Hill - -	82 41 17,5	—0,29	82 41 17,25	
	Pendle Hill - -	. . .		60 1 20	
	Pendle Hill from { Wittle Hill -				74028,7
	Pendle Hill from { Boulsworth Hill				45217,6
CLXXXVI.	Boulsworth Hill -	39 22 48,25	+0,4	39 22 48,75	
	Ingleborough - -	15 0 12,5	—0,03	15 0 12,5	
	Pendle Hill - -	. . .		125 36 58,75	
	Ingleborough from { Boulsworth Hill -				141993,6*
	Ingleborough from { Pendle Hill - -				110820,5
CLXXXVII.	Boulsworth Hill -	127 47 26,75	—0,77	127 47 26	
	Rumbles Moor - -	20 24 6	+0,04	20 24 6	
	Pendle Hill - -	. . .		31 48 28	
	Rumbles Moor from { Boulsworth Hill -				68367,6*
	Rumbles Moor from { Pendle Hill -				102505,8
CLXXXVIII.	Ingleborough - -	62 41 7,75	—0,77	62 41 7	
	Boulsworth Hill -	36 31 3	—0,68	36 31 2,25	
	Great Whernside -	. . .		80 47 50,75	
	Great Whernside from { Ingleborough -				85598
	Great Whernside from { Boulsworth Hill				127807,4

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXXXIX.	Boulsworth Hill -	51 53 35,75	—0,34	51 53 35,5	
	Rumbles Moor -	95 57 50,25	—0,93	95 57 49,25	
	Great Whernside -	. . .		32 8 35,25	
	Rumbles Moor from { Boulsworth Hill -				68368,2*
	Great Whernside -				101114
CXC.	Wittle Hill - -	87 16 40,75	—0,63	87 16 40	
	Boulsworth Hill -	57 44 11,75	—0,48	57 44 11	
	Holme Moss -	. . .		34 59 9	
	Holme Moss from { Wittle Hill -				95345,9
	Boulsworth Hill				112627,8
CXCI.	Boulsworth Hill -	91 47 1,25	—0,95	91 47 0,25	
	Rumbles Moor -	57 26 32	—0,44	57 26 31,5	
	Holme Moss - -	. . .		30 46 28,25	
	Rumbles Moor from { Boulsworth Hill				68372,9*
	Holme Moss -				133564,6
CXCII.	Rumbles Moor -	72 16 31,75	—1,35	72 16 30,25	
	Ledstone Beacon -	58 20 17,5	—1,11	58 20 16,5	
	Holme Moss - -	. . .		49 23 13,25	
	Ledstone Beacon from { Rumbles Moor				119122,5
	Holme Moss -				149471,8
CXCIII.	Ledstone Beacon -	23 7 23,5	+0,4	23 7 24	
	Staincross Heights -	135 5 7	—0,71	135 5 6,25	
	Holme Moss - -	. . .		21 47 29,75	
	Staincross Heights from { Holme Moss -				83136,9
	Ledstone Beacon				78589,6

Clifton Beacon from Hathersage 92227,2 feet. Phil. Trans. 1803, p. 432.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
					Feet.
CXCIV.	Clifton Beacon -	24 16 10	—0,18	24 16 9,75	
	Hathersage - -	64 19 9,75	—0,18	64 19 9,5	
	Bradfield Point -	. . .		91 24 40,75	
	Bradfield Point from { Clifton Beacon				83142,4
	Bradfield Point from { Hathersage -				37919,4
CXCV.	Clifton Beacon -	41 38 23,5	—0,29	41 38 23,25	
	Staincross Heights -	72 8 43,5	—0,39	72 8 43	
	Bradfield Point - -	. . .		66 12 53,75	
	Staincross Heights from { Clifton Beacon -				79930,4
	Staincross Heights from { Bradfield Point -				58039
CXCVI.	Clifton Beacon -	65 54 33,5	—0,56	65 54 33	
	Hathersage - -	50 45 26,75	—0,49	50 45 26,25	
	Staincross Heights -	. . .		63 20 0,75	
	Staincross Heights from { Clifton Beacon				79929,2
	Staincross Heights from { Hathersage -				94215,5
	Clifton Beacon from Gringley Beacon 75068,1. Phil. Trans. 1803, p. 431.				
CXCVII.	Clifton Beacon -	46 29 0,25	—0,34	46 29 0	
	Crowle Beacon - -	46 54 35,5	—0,34	46 54 35	
	Gringley Beacon -	. . .		86 36 25	
	Crowle Beacon from { Clifton Beacon				102613,6
	Crowle Beacon from { Gringley Beacon				74543,4
CXCVIII.	Clifton Beacon -	32 31 5,5	—0,39	32 31 5	
	Crowle Beacon - -	92 5 22	—0,84	92 5 21	
	Hemingbrough Spire	. . .		55 23 34	
	Hemingbrough Spire from { Clifton Beacon				124589,7
	Hemingbrough Spire from { Crowle Beacon				67019,7

No. of Triangles.	Names of Stations.	Observed Angles.	Diff	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CXCIX.	Crowle Beacon -	67 54 2,25	—0,45	67 54 1,75	
	Hunsley Beacon -	44 58 20,25	—0,37	44 58 20	
	Hemingbrough Spire	. . .		67 7 38,25	
	Hunsley Beacon from { Crowle Beacon -				87370
	Hunsley Beacon from { Hemingbrough Spire				87859,4
CC.	Hunsley Beacon -	68 22 50,25	—0,58	68 22 49,75	
	Wilton Beacon -	58 16 37,25	—0,51	58 16 36,75	
	Hemingbrough Spire -	. . .		53 20 33,5	
	Wilton Beacon from { Hunsley Beacon -				82862,3
	Wilton Beacon from { Hemingbrough Spire				96024,9
CCI.	Wilton Beacon -	103 58 59,75	—1,92	103 58 58	
	Hambleton Down -	30 46 30,5	—0,5	30 46 30	
	Hemingbrough Spire -	. . .		45 14 32	
	Hambleton Down from { Wilton Beacon -				133262,7
	Hambleton Down from { Hemingbrough Spire				182109,2
CCII	Wilton Beacon -	126 5 51,5	—3,84	126 5 47,75	
	Botton Head - -	19 20 11,5	+0,05	19 20 11,5	
	Hemingbrough Spire	. . .		34 34 0,75	
	Botton Head from { Wilton Beacon -				164538,6
	Botton Head from { Hemingbrough Spire				234330,1
CCIII.	Hambleton Down -	107 11 36,5	—1,44	107 11 35	
	Wilton Beacon - -	22 6 51,5	—0,37	22 6 51	
	Botton Head - -	50 41 34,5	—0,12	50 41 34	
		180 0 2,5			
	Botton Head from { Hambleton Down				64835,5
	Botton Head from { Wilton Beacon -				164531,2

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCIV.	Botton Head - -	62 15 1	+0,1	62 15 2	
	Wilton Beacon -	11 53 28,5	—0,3	11 23 29	
	Loosehoe Moor -	105 51 29,5	—0,94	105 51 29	
		179 59 59			
	Loosehoe Moor from { Botton Head				35244,2
	Loosehoe Moor from { Wilton Beacon				151369,7
CCV.	Botton Head - -	51 0 23	—0,07	51 0 23	
	Loosehoe Moor -	102 46 14	—0,33	102 46 14	
	Easington Heights -	26 13 22,5	—0,1	26 13 23	
		179 59 59,5			
	Easington Heights from { Botton Head				77788,9
	Easington Heights from { Loosehoe Moor				61992,3
CCVI.	Botton Head - -	100 48 4,5	—0,31	100 48 4	
	Loosehoe Moor -	50 4 54	—0,07	50 4 54	
	Barnaby Moor Pole -	. . .		29 7 2	
	Barnaby Moor Pole from { Botton Head				55550,7
	Barnaby Moor Pole from { Loosehoe Moor				71146,5
CCVII.	Botton Head - -	49 47 41,25	—0,22	49 47 41	
	Easington Heights -	45 20 6,75	—0,21	45 20 6,5	
	Barnaby Moor Pole -	. . .		84 52 12,5	
	Barnaby Moor Pole from { Botton Head -				55548,3
	Barnaby Moor Pole from { Easington Heights				59649,7
CCVIII.	Easington Heights -	5 50 55		5 50 55	
	Burleigh Moor - -	160 23 52,5		160 23 52	
	Barnaby Moor Pole -	. . .		13 45 13	
	Burleigh Moor from { Easington Heights				42270,7
	Burleigh Moor from { Barnaby Moor Pole				18117,6

The distance from Easington Heights to Botton Head, and Easington Heights to Burleigh Moor, with the included angle at Easington Heights 51° 11′ 2″, give 60956,5 for the distance between Botton Head and Burleigh Moor.

Rumbles Moor from Ledstone Beacon 119122,5 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCIX.	Rumbles Moor -	67 1 23,75	—1,57	67 1 23,25	
	Ledstone Beacon -	73 49 9,25	—1,76	73 49 8,75	
	Hambleton Down -	39 9 28,5	—1,3	39 9 28	
		180 0 1,5			
	Hambleton Down from {	Ledstone Beacon			173679,7
		Rumbles Moor -			181173,7
CCX.	Ledstone Beacon -	84 34 0,75	—0,74	84 34 0	
	Hambleton Down -	23 44 1,25	—0,76	23 44 0,5	
	Hemingbrough Spire -	. . .		71 41 59,5	
	Hemingbrough Spire from {	Ledstone Beacon -			73626,8
		Hambleton Down			182109,8

Ledstone Beacon from Staincross Heights 78589,6 feet.

CCXI.	Ledstone Beacon -	120 9 10,75	—1,16	120 9 9,75	
	Staincross Heights -	28 50 54,75	—0,01	28 50 54,75	
	Hemingbrough Spire -	. . .		30 59 55,5	
	Hemingbrough Spire from {	Ledstone Beacon			73626,7
		Staincross Heights			131947,6

Rumbles Moor from Great Whernside 101114 feet.

CCXII.	Rumbles Moor -	67 17 44	—1,26	67 17 42,75	
	Hambleton Down -	33 16 29,25	—1,05	33 16 28,25	
	Great Whernside -	. . .		79 25 49	
	Hambleton Down from {	Rumbles Moor			181168,6
		Great Whernside			170013,8

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCXIII.	Hambleton Down -	82 56 29,5	−0,26	82 56 29,25	
	Black Hambleton Down	89 14 35,75	−0,43	89 14 35,25	
	Great Whernside -	. . .		7 48 55,5	
	Black Hambleton Down from { Hambleton Down				23120,9*
	Black Hambleton Down from { Great Whernside				148740,1
CCXIV.	Hambleton Down -	42 55 24,5		42 55 24,5	
	Black Hambleton Down	118 53 4		118 53 4	
	Botton Head - -	. . .		18 11 31,5	
	Black Hambleton Down from { Hambleton Down				23117,9*
	Black Hambleton Down from { Botton Head -				50427,7
CCXXV.	Rumbles Moor -	6 11 6,75	−0,14	6 11 6,75	
	Hambleton Down -	116 12 57,25	−1,49	116 12 55,5	
	Black Hambleton Down	57 35 59,25	+0,77	57 35 57,75	
		180 0 3,25			
	Black Hambleton Down from { Rumbles Moor -				192504,6*
	Black Hambleton Down from { Hambleton Down				23119*
CCXVI.	Rumbles Moor -	73 12 30	−1,88	73 12 28	
	Ledstone Beacon -	70 59 12	−1,81	70 59 10,25	
	Black Hambleton Down	. . .		35 48 21,75	
	Black Hambleton Down from { Rumbles Moor -				192504*
	Black Hambleton Down from { Ledstone Beacon				194930,8

ART. VIII. *Triangles for ascertaining the Situation of the Great Tower on York Minster.*

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCXVII.	Wilton Beacon -	75 45 15		75 45 15	
	Botton Head - -	24 40 15		24 40 15	
	York Minster - -	. . .		79 34 30	
		. . .			
	York Minster from {	Wilton Beacon			69830,4*
		Botton Head -			162152
CCXVIII.	Wilton Beacon -	53 38 13,5		53 38 13,5	
	Hambleton Down -	31 28 24		31 28 24	
	York Minster - -	. . .		94 53 32,5	
	York Minster from {	Wilton Beacon -			69830,8*
		Hambleton Down			107705,4*
CCXIX.	Hambleton Down -	62 11 41		62 11 41	
	Rumbles Moor -	36 2 20,25		36 2 20,25	
	York Minster - -	. . .		81 45 58,75	
	York Minster from {	Hambleton Down			107699,6*
		Rumbles Moor -			161921,9*
CCXX.	Rumbles Moor -	30 59 3		30 59 3	
	Ledstone Beacon -	103 17 41,75		103 17 41,75	
	York Minster - -	. . .		45 43 15,25	
	York Minster from {	Rumbles Moor -			161925*
		Ledstone Beacon -			85654,8

ART. IX. *Calculation of the Sides of the principal Triangles proceeding from Lancashire and Yorkshire through Westmoreland, Cumberland, Durham, and Northumberland, and a part of the South of Scotland.*

Go Hill from Bleasdale Forest 142951,6 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
					Feet.
CCXXI.	Go Hill - -	41 20 5	—0,61	41 20 4,5	
	Beryl Hill - -	91 29 55,5	—1,26	91 29 54,25	
	Bleasdale Forest -	. . .		47 10 1,25	
	Beryl Hill from { Go Hill - -				104867,8
	Beryl Hill from { Bleasdale Forest				94445,5
CCXXII.	Go Hill - -	131 34 49,5	—1,49	131 34 48	
	Beryl Hill - -	14 24 30,75	+0,06	14 24 30,75	
	Billinge Beacon -	. . .		34 0 41,25	
	Beryl Hill from Billinge Beacon				140239,8

Ingleborough Hill from Bleasdale Forest 103501,1 feet.

CCXXIII.	Ingleborough Hill -	71 49 43,5	—2,01	71 49 41,5	
	Black Comb - -	30 5 35	—0,13	30 5 34,75	
	Bleasdale Forest -	. . .		78 4 43,75	
	Black Comb from { Ingleborough Hill -				201970,3
	Black Comb from { Bleasdale Forest -				196127

The sides Bleasdale Forest to Black Comb 196127 feet, and Bleasdale Forest to Beryl Hill 94445,5 feet, together with 94° 28′ 38″ the corrected angle at Beryl Hill, give 164674,5 feet for the distance between Beryl Hill and Black Comb.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
ccxxiv.	Ingleborough Hill -	35 15 15,5	—1,08	35 15 14,5	
	Black Comb - -	65 15 43,5	—1,63	65 15 42	
	Helvellin Mountain -	. . .		79 29 3,5	
	Helvellin Mountain from {			Ingleborough Hill	186568,6
				Black Comb -	118569,2
ccxxv.	Ingleborough Hill -	61 35 33	—0,51	61 35 32	
	Black Comb - -	22 28 19	—0,78	22 28 18	
	The Calf - -	95 56 12,25	—2,04	95 56 10	
		180 0 4,25			
	The Calf from {			Ingleborough Hill	77614,6
				Black Comb -	178607,5*
ccxxvi.	Black Comb - -	42 47 24,5	—0,89	42 47 23,5	
	The Calf - -	41 19 33	—0,75	41 19 32,25	
	Helvellin Mountain -	. . .		95 53 4,25	
	The Calf from {			Black Comb -	178612,2*
				Helvellin Mountain	121976
ccxxvii.	The Calf - -	63 59 16	—1,01	63 59 15	
	Cross Fell -	57 48 24,5	—1,02	57 48 23,5	
	Helvellin Mountain -			58 12 21,5	
	Cross Fell from {			The Calf - -	122505,3
				Helvellin Mountain	129531,8
ccxxviii.	Cross Fell - -	26 35 21,5	—0,44	26 35 21	
	The Calf - -	86 13 39,25	—0,76	86 13 38,5	
	Shunnor Fell -	. . .		67 11 0,5	
	Shunnor Fell from {			Cross Fell -	132616,9
				The Calf -	59486,9*

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	′	° ′ ″	Feet.
CCXXIX.	Ingleborough Hill -	43 31 19	−0,31	43 31 18,75	
	The Calf - -	72 31 16	−0,4	72 31 15,5	
	Shunnor Fell -	. . .		63 57 25,75	
		180 0 4,5			
	Shunnor Fell from { Ingleborough Hill				82397
	Shunnor Fell from { The Calf - -				59487,9*
	Black Hambleton from Great Whernside 168740,1 feet.				
CCXXX.	Black Hambleton -	32 56 51,75	−1,07	32 56 50,75	
	Water Crag - -	62 22 46,5	−1,17	62 22 45,25	
	Great Whernside -	. . .		84 40 24	
		180 0 4,25			
	Water Crag from { Black Hambleton -				189621
	Water Crag from { Great Whernside -				103576,6
CCXXXI.	Black Hambleton -	122 11 27,75	−1,95	122 11 26	
	Hambleton Down -	52 16 32	+1,47	52 16 33,5	
	Water Crag - -	. . .		5 32 0,5	
		180 0 0,25			
	Hambleton Down from Water Crag -				202882,7
CCXXXII.	Black Hambleton -	46 13 27,25	−1,68	46 13 25	
	Water Crag - -	66 3 11,5	−1,72	66 3 9,5	
	Brandon Down -	67 43 27,5	−1,75	67 43 25,5	
		180 0 6,25			
	Brandon Down from { Black Hambleton				187275,6
	Brandon Down from { Water Crag -				147957,9
CCXXXIII.	Brandon Down -	57 0 24,25	−0,31	57 0 25	
	Water Crag - -	25 0 11,75	−0,38	25 0 12	
	Collier Law -	97 59 21	−1,12	97 59 23	
		179 59 57			
	Collier Law from { Brandon Down -				63150,5
	Collier Law from { Water Crag -				125314,1

No. of Triangles.	Names of Stations.	Observed Angles.	Dif.	Angles corrected for Calculation.	Distances.
					Feet.
ccxxxiv.	Water Crag - -	91 3 23,25	—2,81	91 3 21	
	Black Hambleton - -	33 8 18,75	—1,29	33 8 17,5	
	Collier Law - -	55 48 22,5	—1,37	55 48 21,5	
		180 0 4,5			
		Black Hambleton from Collier Law			229210,8
ccxxxv.	Water Crag - -	52 19 53,5	—0,7	52 19 52,5	
	Collier Law - -	64 2 0	—0,99	64 1 59	
	Cross Fell - -	63 38 9,5	—1	63 38 8,5	
		180 0 3			
		Cross Fell from { Water Crag -			125741,2
		Collier Law -			110708,2
ccxxxvi.	Water Crag - -	93 12 26,75	—0,47	93 12 26,25	
	Cross Fell - -	15 35 36	—0,26	15 35 35,75	
	Shunnor Fell - -	· · ·		71 11 58	
		Shunnor Fell from { Water Crag			35705,3
		Cross Fell -			132620,7*

The distance from Shunnor Fell to Great Whernside is found, by means of the included angle at Ingleborough Hill, viz. 66° 10′ 48″, and the distances already given from that station to each of them, to be 91757.1 feet, and the same distance found by means of the included angle at Water Crag, viz. 61° 1′ 28″, and their respective distances from that station is 91759.8 feet.

ccxxxvii.	Cross Fell - -	99 59 23	—1,94	99 59 20	
	Water Crag - -	40 43 16	—0,74	40 43 15,25	
	Helvellin Mountain	· · ·		39 17 24,75	
		Helvellin Mountain from Water Crag			395556,3

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCXXXVIII.	Black Comb	58 57 16,5	—0,48	58 57 16	
	The Calf	23 49 59,75	—0,63	23 49 59	
	Sca-Fell, Lower Top	, , ,	-	97 12 45	
	Sca-Fell, Lower Top, from { Black Comb				72747,1
	Sca-Fell, Lower Top, from { The Calf -				154245,8
CCXXXIX.	Black Comb	38 18 57	—0,26	38 18 56,75	
	Dent Hill	49 14 1,5	—0,3	49 14 1,25	
	Sca-Fell, Lower Top		-	92 27 2	
	Dent Hill from { Black Comb - -				95963,3
	Dent Hill from { Sca-Fell, Lower Top				59551,2
CCXL.	Cross Fell	49 49 57,75	—0,87	49 49 57	
	Crif-Fell	29 52 19	—1,25	29 52 17,75	
	Helvellin Mountain	, , ,	-	100 17 45,25	
	Crif-Fell from { Cross Fell - -				255886,1
	Crif-Fell from { Helvellin Mountain				198738,6
CCXLI.	Cross Fell	87 59 10,5	—0,59	87 59 10	
	The Calf	45 37 1	—0,68	45 37 0,25	
	High Pike	, , ,	-	46 23 49,75	
	High Pike from { Cross Fell -				120904,7
	High Pike from { The Calf -				169069,5
CCXLII.	Cross Fell	30 10 43	—0,3	30 10 42,75	
	High Pike	82 11 30	—0,79	82 11 29,25	
	Helvellin Mountain	, , ,	-	67 37 48	
	High Pike from { Cross Fell - -				120905,1
	High Pike from { Helvellin Mountain				65724,6

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
					Feet.
CCXLIII.	Cross Fell -	64 8 15,5	—1,34	64 8 14,25	
	High Pike -	85 1 55,5	—2,56	85 1 53	
	Wisp Hill -			30 49 52,75	
	Wisp Hill from { Cross Fell -				235019,8
	Wisp Hill from { High Pike -				212278,4
CCXLIV	Cross Fell -	44 29 1	—2,87	44 28 58	
	Crif-Fell -	61 49 36	—3,25	61 49 32,75	
	Wisp Hill -	73 41 30	—3,7	73 41 29,25	
		180 0 7			
	Wisp Hill from { Cross Fell -				235024,3
	Wisp Hill from { Crif-Fell - -				186814,9
CCXLV.	Crif-Fell -	77 48 9,75	—4,51	77 48 5,25	
	High Pike -	59 20 15	—2,52	59 20 12,5	
	Wisp Hill -			42 51 42,25	
	High Pike from { Crif-Fell -				147733,5
	High Pike from { Wisp Hill - -				212277,5
CCXLVI.	Crif-Fell -	26 36 11,25	+0,34	26 36 11,5	
	Cross Fell -	27 42 23,5	+0,38	27 42 24	
	Skiddaw -			125 41 24,5	
	Skiddaw from { Crif-Fell - -				146485,3*
	Skiddaw from { Cross Fell -				141086,3
CCXLVII.	Crif-Fell -	10 37 35	—0,11	10 37 35	
	High Pike -	82 4 53,75	—0,19	82 4 53,5	
	Skiddaw -			87 17 31,5	
	Skiddaw from { Crif-Fell - -				146488,5*
	Skiddaw from { High Pike -				27273,1

Mean distance from Crif-Fell to Skiddaw 146486,9 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCXLVIII.	Crif-Fell - -	33 24 18,5	—0,75	33 24 17,75	
	Dent Hill -	63 34 19,25	—0,86	63 34 18,5	
	Skiddaw - -	. . .		83 1 23,75	
		. . .			
	Dent Hill from { Crif-Fell - -				162371,1
	Skiddaw -				90060,7
CCXLIX.	Crif-Fell - -	38 11 48	—0,83	38 11 47,25	
	Scilly Bank - -	74 48 14,5	—0,82	74 48 13,75	
	Skiddaw - -	. . .		66 59 59	
		. . .			
	Scilly Bank from { Crif-Fell -				139727,3
	Skiddaw -				93863,6
CCL.	Dent Hill - -	90 20 26		90 20 26	
	Scilly Bank -	73 38 6		73 38 6	
	Skiddaw - -	. . .		16 1 28	
		. . .			
	Scilly Bank from { Dent Hill - -				25910,8
	Skiddaw -				93861,6

The sides Dent Hill from Black Comb 95963,3 feet, and Dent Hill from Skiddaw 90060,7 feet, with 106° 12′ 0″ their included angle at Dent Hill, give 148802,7 feet for the distance between Black Comb and Skiddaw, on which the following triangle for finding the distance between Black Comb and Scilly Bank depends.

CCLI.	Black Comb - -			39 1 48	
	Skiddaw -			54 17 23	
	Scilly Bank -			86 40 49	
	Black Comb from Scilly Bank				121027,7

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCLII.	Black Comb - -	65 58 6	—1,2	65 58 4,75	
	Dent Hill - -	89 8 10	—2,28	89 8 7,75	
	North Berule (Isle of Man) - -	. . .		24 53 47,5	
	North Berule from { Black Comb				287925,6
	North Berule from { Dent Hill -				208192,2
CCLIII.	Black Comb - -	62 28 25	—1,55	62 28 23,5	
	Scilly Bank - -	85 33 51	—2,62	85 33 48,25	
	North Berule -	. . .		31 57 48,25	
	North Berule from { Black Comb				227937,6
	North Berule from { Scilly Bank -				202741,4
*CCLIV.	Black Comb - -	64 57 14	—1,67	64 57 12,25	
	Scilly Bank - -	85 10 38	—2,79	85 10 35,25	
	Snea Fell - -	. . .		29 52 12,5	
	Snea Fell from { Black Comb -				242149,4
	Snea Fell from { Scilly Bank - -				220157,1
CCLV.	Collier Law - -	95 1 11,25	—4,61	95 1 6,5	
	Cross Fell - -	62 47 52,5	—0,62	62 47 52	
	The Cheviot - -	. . .		22 11 23,5	
	The Cheviot from { Collier Law -				260702,2
	The Cheviot from { Cross Fell -				292012,7

* When the party were on Crif-Fell, Snea Fell in the Isle of Man was once observed, but the object was not, at that time, sufficiently distinct to admit of a very accurate observation, and no opportunity offered afterwards of verifying the one then made. By this observation, the angle between Helvellin Mountain and Snea Fell is 76° 37′ 34″, which, with the data already given, makes the distance from Crif-Fell to Snea Fell 303380,5 feet, and from Black Comb to Snea Fell 242144,7 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Dif.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCLVI.	Cross Fell -	39 15 48,75	—2,64	39 15 46	
	Wisp Hill -	87 14 9	—4,84	87 14 4	
	The Cheviot - -	. . .	-	53 30 10	
	Wisp Hill from { Cross Fell -				235018,6
	Wisp Hill from { The Cheviot -				185023,9
CCLVII.	Wisp Hill - -	41 42 33,75	—2,03	41 42 31,75	
	Crif-Fell Hill -	44 6 39,75	—0,87	44 6 39	
	Queensberry Hill -	. . .	-	94 10 49,25	
	Queensberry Hill from { Wisp Hill -				130379
	Queensberry Hill from { Crif-Fell Hill				124628
CCLVIII.	Wisp Hill - -	50 36 16	—2,08	50 36 14	
	Sayrs Law - -	58 50 18,25	—2,21	58 50 16	
	The Cheviot -	. . .	-	28 33 30	
	Sayrs Law from { Wisp Hill -				214463,4
	Sayrs Law from { The Cheviot -				172798,4
CCLIX.	Wisp Hill - -	39 42 52,5	—0,41	39 42 52	
	Sayrs Law - -	30 1 39,5	—0,48	30 1 39	
	The Dunrigg -	. . .	-	110 15 29	
	The Dunrigg from { Wisp Hill -				214397,1
	The Dunrigg from { Sayrs Law -				146069,4
CCLX.	Black Hambleton -	72 42 6	—0,27	72 42 5,75	
	Brandon Down -	15 36 50,5	—0,52	15 36 48,5	
	Botton Head - -	. . .	-	91 41 47,25	
	Botton Head from { Black Hambleton				50427,2
	Botton Head from { Brandon Down -				178882,3

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
					Feet.
CCLXI.	Brandon Down -	77 58 43,75	—0,96	77 58 42,75	
	Wordeslow Hill -	81 28 33,75	— ,01	81 28 32,75	
	Botton Head - -	. . .	.	20 32 44,5	
	Wordeslow Hill from { Brandon Down -				63480,7*
	Botton Head -				176913,7
CCLXII.	Botton Head - -	65 37 33	—0,74	65 37 32,25	
	Easington Heights -	88 18 12,25	—1,58	88 18 10,5	
	Wordeslow Hill - -	. . .	-	26 4 17,25	
	Easington Heights from { Botton Head -				77786,3
	Wordeslow Hill				161215,8
CCLXIII.	Easington Heights -	37 7 17	+0,84	37 7 17,75	
	Burleigh Moor -	131 33 56	—0,46	131 33 55,5	
	Wordeslow Hill -	. . .	-	11 18 46,75	
	Burleigh Moor from { Easington Heights				132268,7
	Wordeslow Hill -				130039,1
CCLXIV.	Wordeslow Hill -	96 14 3	—1,5	96 14 1,5	
	Burleigh Moor - -	24 44 28	—0,45	24 44 27,5	
	Brandon Down -	59 1 31,5	—0,37	59 1 31	
		180 0 2,5			
	Brandon Down from { Wordeslow Hill - -				63475,5*
	Burleigh Moor -				150771
	Mean distance from Wordeslow Hill to Brandon Down 63478,1 feet.				
CCLXV.	Wordeslow Hill -	38 50 58	—0,2	38 50 57,75	
	Brandon Down -	81 21 42,75	—0,13	81 21 42,75	
	Pontop Pike - -	59 47 19,75	—0,16	59 47 19,5	
		180 0 0,5			
	Pontop Pike from { Wordeslow Hill -				72621,9
	Brandon Down -				46076,5*

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCLXVI.	Collier Law -	44 47 10	—0,14	44 47 11	
	Brandon Down -	60 18 51	—0,18	60 18 52	
	Pontop Pike -	74 53 55,5	—0,23	74 53 57	
		179 59 56,5			
	Pontop Pike from { Collier Law -				56824,6
	Pontop Pike from { Brandon Down				46078,5*
CCLXVII.	Wordeslow Hill -	19 6 42,25	+0,42	19 6 40	
	Brandon Down -	141 40 31,5	—1,35	141 40 30	
	Collier Law -	19 12 51	+0,43	19 12 50	
		180 0 4,75			
	Collier Law from Wordeslow Hill				119613
CCLXVIII.	Wordeslow Hill -	68 16 54	—1,72	68 16 52,75	
	Collier Law -	75 12 28	—1,97	75 12 26	
	Simonside Hill -	. . .		36 30 41,25	
	Simonside Hill from { Wordeslow Hill				194372,3
	Simonside Hill from { Collier Law -				186764,7*
CCLXIX.	Cross Fell -	49 36 25,5	—0,68	49 36 25	
	Collier Law -	103 33 22,75	—2,93	103 33 20	
	Simonside Hill -	. . .		26 50 15	
	Simonside Hill from { Cross Fell -				238390,7
	Simonside Hill from { Collier Law -				186765*
	Mean distance from Collier Law to Simonside Hill 186764,8 feet.				
CCLXX.	Collier Law -	14 28 51	—0,32	14 28 50,75	
	Rufflaw -	103 32 30	—1,4	103 32 28,5	
	Simonside Hill -	. . .		61 58 40,75	
	Rufflaw from { Collier Law -				169584*
	Rufflaw from { Simonside Hill -				48036,8

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCLXXI.	Collier Law - -	29 1 6	+0,1	23 1 6	
	Rufflaw - -	124 36 49,75	—7,08	124 36 49,75	
	The Cheviot - -			32 22 4,25	
	Rufflaw from { Collier Law - The Cheviot -				169589* 123862,8
CCLXXII.	Collier Law - -	35 9 28	+0,69	35 9 28,75	
	Rufflaw - - -	14 52 51,5	+0,17	14 52 51,75	
	Pontop Pike - -			129 57 40,5	
	Pontop Pike from Rufflaw -				127402,4

By using 60° 43′ 36″. the included angle at Collier Law and the distances from that station to Rufflaw and Wordeslow Hill, the distances between those stations is found to be 152413 feet.

CCLXXIII.	Rufflaw - -	60 0 5,5	—1,22	60 0 5,25	
	Alnwick Moor - -	40 34 54	—0,18	40 34 53,75	
	Simonside Hill -			79 25 1	
	Alnwick Moor from { Rufflaw - Simonside Hill				72588,1* 63950,4
CCLXXIV.	Rufflaw - -	38 55 42	+0,36	38 55 42,25	
	Alnwick Moor - -	106 58 56	—0,55	106 58 55,5	
	The Cheviot - -			34 5 22,25	
	Alnwick Moor from { Rufflaw - The Cheviot				72588,7* 81377,4

Nos. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
					Feet.
CCLXXV.	Sayrs Law - -	44 34 27,25	—0,89	44 34 26,25	
	Mordington Hill -	89 34 2,75	—1,75	89 34 1	
	The Cheviot - -	. . .		45 51 32,75	
	Mordington Hill from { Sayrs Law -				124008,6
				The Cheviot -	121278,4
CCLXXVI.	Mordington Hill -	32 43 0,25	—0,24	32 43 0	
	Blackheddon - -	117 9 58,25	—1,01	117 9 57,25	
	The Cheviot - -	. . .		30 7 2,75	
	Blackheddon from { Mordington Hill				68399,7*
				The Cheviot -	73676,6
CCLXXVII.	Mordington Hill -	122 17 3	—2,01	122 17 1	
	Blackheddon - -	37 54 29,25	—0,42	37 54 28,75	
	Sayrs Law - -	. . .		19 48 30,25	
	Blackheddon from { Mordington Hill				68398,2*
				Sayrs Law -	170637,4
CCLXXVIII.	Blackheddon - -	33 9 8,25	—0,37	33 9 7,88	
	Lumsdane Hill -	107 25 29,5	—1,79	107 25 27,75	
	Sayrs Law - -	. . .		39 25 24,25	
	Lumsdane Hill from { Blackheddon -				113574,1*
				Sayrs Law -	97803,5
CCLXXIX.	Blackheddon - -	112 24 37,25	—1,2	112 24 36	
	Lumsdane Hill -	25 40 44	—0,11	25 40 44	
	The Cheviot - -	. . .		41 54 40	
	Lumsdane Hill from { Blackheddon -				113573*
				The Cheviot -	157184,9

The distance from Lumsdane Hill to Mordington Hill is discovered to be 45764,1 feet, by using 19° 36′ 54″ the included angle at Sayrs Law with their respective distances from that station.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
					Feet.
CCLXXX	Sayrs Law - -	96° 56′ 7″	—1,98	96° 56′ 5″	
	Lumsdane Hill - -	52 11 55,5	—0,66	52 11 55	
	Largo Law - -	. . .		30 52 0	
	Largo Law from { Sayrs Law -				150628,1
	Largo Law from { Lumsdane Hill				189240,1
CCLXXXI.	Sayrs Law - -	114 29 4,5	—3,2	114 29 1,25	
	Lumsdane Hill - -	43 48 42	+0,15	43 48 42,25	
	East Lomond Top -	. . .		21 42 16,5	
	East Lomend Top from { Sayrs Law -				183084
	East Lomend Top from { Lumsdane Hill				240679

The sides Alnwick Moor to The Cheviot 81377,4 feet, and Alnwick Moor to Simonside Hill 63950,4 feet, together with 66° 24′ 2″ the included angle at Alnwick Moor gives 80901,8 feet for the distance from The Cheviot to Simonside Hill, and 46° 24′ 56″ for the angle at The Cheviot. The angle at Blackheddon between The Cheviot and Simonside Hill is 34° 20′ 53″, and the distance from that station to The Cheviot is 73676,6 feet, these, with the distance just found, give 130234,2 feet for the distance between Blackheddon and Simonside Hill, and 114° 43′ 58″ for the angle at The Cheviot between those points; whence 68° 19′ 2″ is found to be the angle at The Cheviot between Alnwick Moor and Blackheddon, which with 81377,4 and 73676,6 feet their respective distances from The Cheviot, give 87293,3 feet for their distance from each other.

SECTION THIRD.

ART. I. *Secondary Triangles formed by the intersection of Church Steeples, Light-Houses, Signal Staves, and other remarkable Objects, from the principal Stations.*

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
Royston from Orwell 43642,8 feet.		
	° ′ ″	
Royston -	16 56 27	155355
Orwell - -	156 40 20	114316
Ely Minster -	. . .	
Royston - -	21 3 35	74857
Orwell - -	134 15 40	37560
Great St. Mary's, Cambr.	. . .	
Royston -	10 56 3	70300
Orwell - -	152 17 1	28671
Coton Spire - -	. . .	
Royston - -	3 46 48	49738
Orwell - -	151 17 22	6826
Great Eversden Steeple	. . .	
Royston - -	31 47 47	23674
Orwell - -	27 56 22	26624
Melbourne Steeple -	. . .	
Royston - -	39 15 0	71394
Orwell - -	104 27 19	46648
Lord Osborne's House	. . .	
Royston - -	78 16 40	32930
Orwell - -	41 6 24	49042
Headon Steeple -	. . .	
Royston - -	85 25 41	29508
Orwell - -	35 27 54	50696
Chisball Steeple - -	. . .	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Royston - -	3 56 35	37860
Orwell - -	23 54 36	6423
Orwell Steeple -	. . .	
Royston - -	98 40 27	23644
Orwell - -	26 20 27	52678
Asbwell Spire -	. . .	
Royston - -	56 13 18	94156
Orwell - -	96 20 52	78745
Balsham Steeple -	. . .	
Royston - -	20 15 37	28393
Orwell - -	30 1 59	19644
Meldreth Steeple -	. . .	
Royston -	16 59 59	15230
Orwell - -	8 42 21	29417
Bassingbourn Steeple	. . .	
Royston - -	10 21 4	42358
Orwell - -	75 27 31	7863
Whimple Ruins -	. . .	
Royston - -	12 56 3	38322
Orwell - -	53 44 6	10638
Lord Hardwick's Pleasure House - -	. . .	
Royston - -	34 5 36	116152
Orwell - -	128 54 19	83666
Mr. Humphrey's Windmill	. . .	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Royston - -	33 58 28	114694
Orwell - -	128 46 0	82202
Swaffham Steeple -	. . .	
Royston - -	110 49 0	20164
Orwell - -	20 21 9	54192
Peacby's Obelisk -	. . .	
Royston - -	110 24 4	20757
Orwell - -	20 55 33	54471
Cupola with Vane and Pinnacle - -	. . .	
Orwell from Maddingly 29796,8 feet.		
Orwell - -	21 36 30	37568
Maddingly - -	110 20 55	14756
Great St. Mary's Steeple, Cambridge -	. . .	
Orwell - -	33 0 55	28152
Maddingly -	68 1 18	16541
Granchester Steeple - -	. . .	
Orwell - -	20 27 29	37526
Maddingly - -	112 14 12	14170
Trinity College, Cambridge	. . .	
Orwell - -	21 44 30	38090
Maddingly - -	111 35 28	15174
Trinity Spire, Cambridge	. . .	
Orwell - -	38 23 25	30462
Maddingly - -	72 37 13	19822
Trumpington Steeple -	. . .	
Orwell - -	3 35 2	28660
Maddingly - -	56 20 8	2152
Coton Spire - -	. . .	
Orwell - -	83 7 16	24794
Maddingly -	42 32 20	36409
Barkway Mill - -	. . .	
Orwell from Balsham 74225 feet.		
Orwell - -	101 42 52	48874
Balsham - -	29 37 39	96804
Tharfield Mill -	. . .	
Orwell - -	5 30 14	78731
Balsham - -	118 45 4	8613
Balsham Steeple -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Orwell - -	128 11 48	52727
Balsham - -	21 12 2	114584
Ashwell Spire -	. . .	
Royston from Balsham 93515,3 feet.		
Royston - -	116 10 4	35800
Balsham - -	16 22 53	113928
Huish Spire -	. . .	
Maddingly from Balsham 61627,8 feet.		
Maddingly - -	46 49 28	32217
Balsham - -	30 41 28	46031
Maggots Mount -	. . .	
Maddingly -	82 57 37	35453
Balsham - -	31 33 36	67226
Cottenham Spire	. . .	
Balsham from Newmarket 47954,2 feet.		
Balsham - -	64 29 32	86118
Newmarket - -	82 2 21	78479
Haddenham Spire -	. . .	
Balsham - -	64 20 43	98708
Newmarket - -	86 38 35	89130
Sutton Steeple -	. . .	
Balsham - -	59 47 36	27403
Newmarket - -	34 43 36	41572
Bottisham Steeple -	. . .	
Balsham - -	67 34 57	23966
Newmarket -	29 43 3	44693
Great Wilbraham Steeple	. . .	
Newmarket from Brandon Hill 73937,7 feet.		
Newmarket - -	89 9 16	62766
Brandon Hill -	40 40 54	96278
Stretham Spire -	. . .	
Newmarket -	9 45 29	39733
Brandon Hill -	10 57 31	35425
Mildenhall Steeple -	. . .	
Newmarket -	108 41 56	25702
Brandon Hill -	16 30 8	85708
Burwell Spire -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Bow Brickhill from Kensworth 57668 feet.		
	° ′ ″	
Bow Brickhill -	60 32 27	139016
Kensworth -	95 3 7	121514
Therfield Steeple -	. . .	
Bow Brickhill -	59 23 51	136957
Kensworth -	95 50 18	118495
Kelshall Steeple -	. . .	
Bow Brickhill -	57 5 5	134708
Kensworth -	97 49 14	114145
Sandon Steeple -	. . .	
Horsemoor Hill from Brogborough 17859 feet.		
Horsemoor Hill -	8 36 29	10270
Brogborough -	11 17 4	7855
Goldington Steeple -	. . .	
Horsemoor Hill -	9 7 38	12562
Brogborough -	20 3 57	5808
Marston Mortyne Steeple	. . .	
Hill Farm from Brogborough 26727 feet.		
Hill Farm - -	149 33 15	19868
Brogborough -	12 55 45	44996
Woburn Abbey -	. . .	
Hill Farm from Bow Brickhill 16178 feet.		
Hill Farm -	130 28 38	8088
Bow Brickhill -	16 1 12	22294
Milton Bryant Steeple	. . .	
Trusler Hill from Lilleyhoe 50673,6 feet.		
Trusler Hill -	34 26 27	21007
Lilleyhoe - -	19 36 29	35402
Tuddington Steeple -	. . .	
Trusler Hill from Brogborough 14702,7 feet.		
Brogborough -	36 5 31	28117
Trusler Hill -	115 49 48	18402
Shire Ash Tree -	. . .	
Brogborough -	54 48 35	10417
Trusler Hill -	44 22 47	12172
Aspley Steeple -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Brogborough -	49 35 57	14939
Trusler Hill -	66 11 23	12435
Aspley Wood Oak -	. . .	
Brogborough -	25 5 40	15332
Trusler Hill -	82 49 42	6554
Spruce Fir -	. . .	
Brogborough -	101 51 23	16569
Trusler Hill -	41 50 44	24306
Willen Steeple -	. . .	
Trusler Hill -	108 25 45	9909
Brogborough -	27 47 37	20161
Crow Holt - -	. . .	
Trusler Hill - -	98 51 11	11246
Brogborough -	34 3 55	19838
Landon Hill -	. . .	
Trusler Hill -	96 9 3	13634
Brogborough -	39 59 5	21095
Job's Hill - -	. . .	
Trusler Hill from Bow Brickhill 20138,7 feet.		
Trusler Hill -	14 34 53	21360
Bow Brickhill -	95 40 3	5404
Little Brickhill -	. . .	
Trusler Hill - -	13 36 44	19332
Bow Brickhill -	73 28 59	4746
Little Brickhill Pest House	. . .	
Arbury Hill from Helkinton 67529,4 feet.		
Arbury Hill -	27 40 8	82908
Helkinton - -	99 59 45	39093
Lutterworth Steeple	. . .	
Arbury Hill -	14 32 27	17827
Helkinton - -	5 5 16	50472
Daventry Spire -	. . .	
Arbury Hill -	6 17 1	52053
Helkinton - -	19 50 25	16786
West Haddon Steeple	. . .	
Arbury Hill - -	4 13 23	53531
Helkinton - -	15 34 23	14683
West Haddon Windmill	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Arbury Hill -	16 1 19	63819
Helkinton - -	70 38 24	18670
Guilesborough Spire -	. . .	
Arbury Hill -	51 42 50	44561
Helkinton - -	41 13 29	53075
Dunchurch Steeple	. . .	
Arbury Hill - -	26 50 36	85985
Helkinton - -	103 19 0	39899
Misterton Steeple -	. . .	
Arbury Hill -	29 47 6	181893
Helkinton - -	134 59 37	127767
Mount Sorrel Windmill	. . .	
Arbury Hill - -	9 12 44	80065
Helkinton - -	131 54 20	17223
Naseby Steeple -	. . .	

Arbury Hill from Burrow Hill 19028,4 feet.

Burrow Hill - -	33 12 5	29610
Arbury Hill -	109 31 7	17202
Sir Geo. Shuckburgh's Observatory -	. . .	
Burrow Hill - -	73 10 36	21302
Arbury Hill -	57 45 20	24109
Branston Spire -	. . .	
Burrow Hill -	8 38 50	5513
Arbury Hill -	3 29 37	13634
Newnham Windmill -	. . .	
Burrow Hill -	32 32 51	29719
Arbury Hill -	110 38 32	17085
Shuckburg Steeple -	. . .	
Burrow Hill -	150 16 27	56311
Arbury Hill - -	22 20 41	73444
Cold Ashby Steeple -	. . .	

Helkinton from Naseby 20182 feet.

Helkinton - -	64 7 26	24618
Naseby - -	66 55 16	24077
Husband Bosworth Steeple	. . .	
Helkinton - -	103 0 43	19681
Naseby - -	37 55 19	31202
South Kilworth Steeple	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Helkinton -	88 17 31	21845
Naseby - -	48 11 16	29295
North Kilworth Spire	. . .	
Helkinton -	32 37 40	24016
Naseby - -	90 11 34	12948
Sibertoft Steeple -	. . .	
Helkinton -	63 39 5	11352
Naseby - -	33 53 24	18243
Welford Steeple -	. . .	

Helkinton from Tilton 104228,1 feet.

Helkinton -	50 5 16	132396
Tilton - -	79 14 58	103365
Bardon Gazebo -	. . .	

Cropwell Bishop to Stathern 39454 feet.

Cropwell Bishop -	119 58 47	97620
Stathern - -	44 2 14	122054
Bardon Gazebo -	. . .	

Tilton from Stathern 84107,6 feet.

Tilton - -	6 31 51	63918
Stathern - -	19 26 4	21849
Waltham Spire -	. . .	
Tilton - -	99 46 56	7943
Stathern - -	5 14 1	85813
Tilton Spire -	. . .	
Tilton - -	41 16 24	19787
Stathern - -	10 40 35	70456
Cold Overton Steeple	. . .	

Bardon Hill from Stathern 122298,7 feet.

Bardon Hill - -	36 49 30	94899
Stathern - -	50 50 3	73363
Nottingham Steeple -	. . .	
Bardon Hill -	88 52 51	37761
Stathern -	17 15 13	127288
Breedon on the Hill Steeple	. . .	

Stathern from Holland Hill 83722,1 feet.

Stathern - - -	64 0 19	26178
Holland Hill - -	18 2 21	75983
Bottesford Spire -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Stathern - -	64 24 35	13935
Holland Hill -	9 11 15	78713
Redmile Spire -	. . .	
Stathern - -	5 22 9	37747
Holland Hill -	4 22 39	46276
Bingham Spire -	. . .	
Stathern - -	25 31 53	16331
Holland Hill -	5 49 33	69344
Langar Steeple -	. . .	
Stathern - -	147 44 26	21843
Holland Hill - -	6 30 30	102856
Waltham Spire -	. . .	
Stathern - -	16 36 44	9878
Holland Hill -	2 10 41	74310
Plungar Steeple -	. . .	
Stathern - -	12 11 29	19125
Holland Hill - -	3 33 14	65154
Granby Steeple -	. . .	
Stathern - -	89 48 48	75538
Holland Hill -	42 8 31	112580
Caythorpe Spire -	. . .	
Stathern - -	80 56 26	114129
Holland Hill - -	59 44 27	130482
Coleby Spire -	. . .	
Stathern - -	86 58 48	85874
Holland Hill - -	47 16 35	116731
Leadenham Spire -	. . .	
Stathern - -	79 8 26	118360
Holland Hill - -	62 8 51	131471
Harmstone Steeple -	. . .	
Stathern - -	56 54 15	72726
Holland Hill -	48 25 28	64942
Newark Spire -	. . .	

Stathern from Bottesford 28352,8 feet.

Stathern - -	131 17 42	4298
Bottesford - -	5 54 41	31356
Stathern Steeple -	. . .	
Stathern -	18 14 52	111617
Bottesford - -	155 46 4	85154
Boothby Steeple -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Stathern - -	20 1 9	104670
Bottesford - -	152 53 25	78631
Wellingore Steeple -	. . .	
Stathern - -	7 5 46	45040
Bottesford -	161 11 51	17263
Long Bennington Steeple	. . .	
Stathern - -	5 0 42	25949
Bottesford - -	169 30 40	54075
Doddington Spire -	. . .	
Stathern - -	8 44 55	27538
Bottesford - -	74 49 54	4340
Foston Spire -	. . .	
Stathern - -	135 22 38	37405
Bottesford - -	25 32 41	60932
Over Broughton Steeple	. . .	
Stathern - -	138 40 9	33886
Bottesford -	22 35 9	58267
Nether Broughton Steeple	. . .	

South End of proposed Base from Cropwell Bishop 28541 feet.

South End of Base -	167 48 4	21538
Cropwell Bishop -	5 14 36	49801
Belvoir Castle -	. . .	

Bardon Hill from Tilton 103683,2 feet.

Bardon Hill - -	54 14 42	33789
Tilton - -	18 5 27	88303
Loughborough Steeple	. . .	
Bardon Hill -	58 19 22	19104
Loughborough -	34 23 10	28787
Belton Spire -	. . .	
Bardon Hill -	1 21 21	36015
Loughborough -	158 58 8	2375
Stanford Hall -	. . .	

Cropwell Bishop from Bottesford 49999,4 feet.

Cropwell Bishop -	17 32 7	35857
Bottesford -	34 21 5	19146
Barkston Spire -	. . .	
Cropwell Bishop -	1 24 25	47957
Bottesford - -	29 48 38	2369
Bottesford Spire -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Cropwell Bishop -	14 9 25	30344
Bottesford -	19 50 4	21873
Whatton Spire -	. . .	
Cropwell Bishop -	15 14 13	42306
Bottesford -	50 27 37	14417
Redmile Spire -	. . .	
Cropwell Bishop -	36 14 4	76855
Bottesford -	104 47 22	46985
Newark Spire -	. . .	
Cropwell Bishop -	22 50 22	49783
Bottesford -	77 58 11	19757
Belvoir Castle -	. . .	
Cropwell Bishop -	38 41 5	32829
Bottesford -	40 5 41	31860
Kilvington Steeple -	. . .	
Cropwell Bishop from Holland Hill 52077,2 feet.		
Cropwell Bishop -	108 29 14	93328
Holland Hill -	47 15 35	120240
Gateway near Grantham	. . .	
Cropwell Bishop from Stathern 39452,5 feet.		
Cropwell Bishop -	16 56 8	35855
Stathern - - -	63 44 16	11647
Barkstone Spire -	. . .	
Holland Hill from Sutton Ashfield 38375,2 feet.		
Holland Hill -	36 53 11	83748
Sutton Ashfield -	119 38 42	57838
Kritch Spire -	. . .	
Holland Hill -	35 29 38	85074
Sutton Ashfield -	122 1 14	58259
Hurl's Gazebo -	. . .	
Sutton Ashfield from Orpit Heights 73826,6 feet.		
Sutton Ashfield -	37 42 33	11443
Orpit Heights -	6 10 2	65150
Sutton Spire -	. . .	
Sutton Ashfield -	14 23 18	11906
Orpit Heights -	2 43 9	62364
Kirby Spire -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Weaver Hill from Orpit Heights 71095,7 feet.		
Weaver Hill -	34 54 43	90525
Orpit Heights -	93 27 58	51904
Derby Steeple -	. . .	
Bar Beacon from Weaver Hill 161601 feet.		
Bar Beacon -	19 36 57	44758
Weaver Hill -	7 10 13	120382
Litchfield Spire -	. . .	
Bar Beacon from Castle Ring 51699,9 feet.		
Bar Beacon -	97 54 44	25140
Castle Ring -	24 17 43	60521
Wednesbury Steeple -	. . .	
Bar Beacon - - -	79 56 18	48345
Castle Ring - -	47 44 24	64318
Wolverhampton Spire -	. . .	
Brown Clee Hill from Ashley Heath, 168600 feet.		
Brown Clee Hill -	39 28 38	91282
Ashley Heath -	30 35 50	114017
St. Chad's Steeple, Shrewsbury -	. . .	
Ashley Heath from Cyrn y Brain 180351,1 feet.		
Ashley Heath -	56 49 47	114013
Cyrn y Brain -	38 58 17	151739
St. Chad's Steeple, Shrewsbury -	. . .	
Long Mountain from Cyrn y Brain 144778,5 feet.		
Long Mountain -	12 10 45	81670
Cyrn y Brain -	14 51 28	67193
Pile of Stones on Cyrne Moelfre.	. . .	
Stow to the Long Mountain 104104,3 feet.		
Stow - - -	42 20 41	64010
Long Mountain -	37 12 17	71306
Pole - - -	. . .	
Stow from Llandinam 98832,9 feet.		
Stow - - -	73 9 33	72940
Llandinam - -	41 56 20	104457
Mount near Montgomery	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Stow - - -	160 0 16	90591
Llandinam - -	9 33 30	186560
Titterstone Clee Hill, highest point - - -	. . .	
Stow - - -	4 55 21	90701
Llandinam -	42 35 28	11500
Flagstaff North of Llandinam Mountain -	. . .	
Talsarn from New Inn Hill 89121 feet.		
Talsarn - - -	6 48 59	74023
New Inn Hill -	29 21 23	17921
Barrow near New Inn Hill	. . .	
Talsarn - - -	28 44 44	105533
New Inn Hill - -	93 50 20	50867
Barrow on a Hill near Newcastle -	. . .	
Talsarn from Tregarron Down 64952 feet.		
Talsarn - -	12 58 41	56895
Tregarron Down -	53 20 30	15928
Karn of Stones near Llandowy - - -	. . .	
Talsarn from Aberystwith 78591,5 feet.		
Talsarn - - -	19 29 10	93991
Aberystwith - -	107 44 53	32921
Karn of Stones on the right of Plynlimmon -	. . .	
Cleeve from Malvern Station, 100909,6 feet.		
Cleeve - - -	61 27 18	57623
Malvern Station -	34 36 2	89140
Glocester Cathedral -	. . .	
Cleeve - - -	67 42 27	41710
Malvern Station -	24 23 50	93431
Churchdown Steeple -	. . .	
Malvern Station from May Hill 82255,5 feet		
Malvern Station -	55 14 39	94887
May Hill - - -	70 8 16	82889
Cheltenham Spire - -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Malvern Station - -	40 22 0	93420
May Hill - -	79 37 31	61512
Churchdown Steeple -	. . .	
Malvern Station -	64 33 54	85188
May Hill - -	59 18 19	89465
Cleeve Steeple - -	. . .	
Malvern Station -	82 33 18	74657
May Hill -	45 33 54	103674
Beckford Steeple -	. . .	
Malvern Station -	60 19 0	95902
May Hill -	67 21 5	90279
Prestbury Steeple -	. . .	
Malvern Station -	60 33 56	57935
May Hill - -	43 10 17	73747
Tewkesbury Steeple -	. . .	
Malvern Station -	30 9 58	89133
May Hill - - -	83 23 8	45090
Glocester Cathedral	. . .	
Malvern Station -	78 17 57	56516
May Hill - -	38 0 57	89858
Breedon Spire -	. . .	
Malvern Station -	19 53 10	30694
May Hill - -	11 3 51	54403
Ledbury Steeple -	. . .	
Malvern Station - -	108 43 26	58750
May Hill - - -	28 49 22	115413
Pershore Steeple -	. . .	
Trelleg Beacon from Mynydd Mane 86392,7 feet.		
Trelleg Beacon -	22 7 18	3907
Mynydd Mane -	1 1 6	82786
Trelleg Spire - -	. . .	
Trelleg Beacon -	114 47 10	22725
Mynydd Mane -	12 8 20	98113
Mr. Hardwick's Folly	. . .	
Trelleg Beacon - -	88 47 11	57151
Mynydd Mane -	33 51 10	102571
A white Steeple -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Trelleg Beacon -	105 12 52	138485
Mynydd Mane -	47 26 1	181443
Lansdown Monument	. . .	
Garth Hill from Mynydd Mane 69594,5 feet.		
Garth Hill - -	50 40 55	142388
Mynydd Mane -	100 56 19	112071
Pleasure House -	. . .	
Garth Hill - -	106 12 31	58078
Mynydd Mane -	33 1 19	102337
Barrow on Carn Vawr	. . .	
Garth Hill - -	9 19 10	55019
Mynydd Mane -	30 12 38	17707
Twynbarlwm Mountain	. . .	
Garth Hill from Ogmoor Down 75847,9 feet.		
Garth Hill -	19 45 41	18708
Ogmoor Down -	6 11 54	58584
Llantrissant Steeple -	. . .	
Garth Hill - -	20 25 28	19812
Ogmoor Down -	6 52 56	57697
Llantrissant Windmill	. . .	
Mynydd Mane from Llangeinor Mountain 114330,3 feet.		
Mynydd Mane -	48 48 33	112662
Llangeinor - -	64 40 2	93800
Beacons of Brecknock, highest Point -	. . .	
Mynydd Mane -	114 11 19	90484
Llangeinor -	28 35 50	172442
Sugar Loaf Mountain, or Pen y Voel -	. . .	
Mynydd Mane -	4 24 13	102336
Llangeinor -	32 34 45	14593
Carn Vawr -	. . .	
Ogmoor Down from Cefn Bryn 128827,8 feet.		
Ogmoor Down -	155 48 20	30343
Cefn Bryn - -	4 32 35	156999
Penline Castle -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Ogmoor Down -	166 50 3	42418
Cefn Bryn - -	3 15 1	170405
Clump of Trees on Stalling Down - -	. . .	
Margam Down from Llangeinor 36317,3 feet.		
Margam Down -	4 20 4	29194
Llangeinor -	17 1 24	7537
Blaengarrw Barrow	. . .	
Margam Down from Cefn Bryn 98765,8 feet.		
Margam Down -	52 18 40	19589
Cefn Bryn - -	10 7 37	88163
Voul Vawr Barrow -	. . .	
Margam Down -	34 1 5	264709
Cefn Bryn - -	129 10 3	191013
East Extremity of Lundy Island - -	. . .	
Margam Down -	30 46 14	261658
Cefn Bryn -	133 16 46	183875
West Extremity of Lundy Island - -	. . .	
Margam Down -	33 50 36	267043
Cefn Bryn - -	129 35 57	193015
Building on Lundy Island	. . .	
Margam Down -	19 1 45	50741
Cefn Bryn - -	18 2 22	53424
Windmill on Kilvey Hill	. . .	
Cefn Bryn from Marros Beacon 120551 feet.		
Cefn Bryn -	23 36 46	49782
Marros Beacon -	14 23 30	77012
Penbree Steeple -	. . .	
Cefn Bryn - -	1 0 53	143146
Marros Beacon -	173 35 32	22714
Llandowy Steeple - -	. . .	
Cefn Bryn - -	14 34 38	131362
Marros Beacon -	101 15 34	33710
Tenby Spire -	. . .	
Cefn Bryn - -	3 8 26	131914
Marros Beacon -	147 5 7	13300
Crunwell Steeple -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Cefn Bryn from Lannon 62492,6 feet.		
Cefn Bryn - - -	72 30 24	131352
Lannon - -	79 35 34	127372
Tenby Spire - -	. . .	
Cefn Bryn - - - -	56 26 30	121175
Lannon - -	92 32 48	101078
Marros Steeple - -	. . .	
Marros Beacon from Lannon 102163 feet.		
Marros Beacon -	3 31 52	67188
Lannon - -	6 43 24	35346
Kidwelly Spire -	. . .	
Marros Beacon -	132 28 56	33723
Lannon - -	11 15 29	127389
Tenby Spire - -	. . .	
Marros Beacon -	48 22 39	89015
Lannon - - -	57 6 22	79247
West Point of Gower -	. . .	
Marros Beacon -	116 38 39	44342
Lannon - - -	17 59 25	128322
Wool House on Caldy Island	. . .	
Marros Beacon -	69 21 57	3195
Lannon - -	1 41 42	101081
Marros Steeple -	. . .	
Marros Beacon -	22 4 4	120364
Lannon - -	101 43 19	46184
Windmill near Penclath	. . .	
Ogmoor Down from Margam Down 49328,2 ft.		
Ogmoor Down - -	17 4 52	23063
Margam Down - -	13 56 41	28111
Windmill near Lieut. Gen. Huddlestone's House	. . .	
Ogmoor Down - -	26 41 6	19938
Margam Down -	15 51 39	32761
Windmill near the last	. . .	
Marros Beacon from Precelly Top 83962,5 feet.		
Marros Beacon -	71 52 39	131548
Precelly Top - - -	71 0 6	132225
St. Ann's Lighthouse -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Marros Beacon -	85 47 47	95504
Precelly Top - -	51 3 39	122454
Warren Spire -	. . .	
Marros Beacon -	88 47 37	83793
Precelly Top - -	45 32 39	117366
St. Petrook's Steeple -	. . .	
Precelly Top from Plumstone Down 66753,5 ft.		
Precelly Top - -	56 44 44	34087
Plumstone Down -	30 40 18	55879
Dinas Rock - -	. . .	
Precelly Top -	25 4 28	69227
Plumstone Down -	82 8 22	29616
St. Thomas's Church Tower, Haverfordwest -	. . .	
Precelly Top - -	24 0 47	68831
Plumstone Down -	82 6 49	28278
Haverfordwest Spire -	. . .	
Precelly Top -	43 26 53	115709
Plumstone Down - -	102 13 55	81421
Sir H. Owen's Summer Ho.	. . .	
Precelly Top -	27 22 45	66281
Plumstone Down -	76 52 8	28094
Prandergest Steeple -	. . .	
Precelly Top - -	44 29 58	69759
Plumstone Down -	70 49 49	51764
Highest Point of Pencar Rock - -	. . .	
Precelly Top -	1 43 34	77314
Plumstone Down -	167 31 25	10780
Roach Castle -	. . .	
Precelly Top - -	42 57 29	63198
Plumstone Down -	64 32 36	47698
Lord Milford's Summer House -	. . .	
Precelly Top - -	41 4 36	122432
Plumstone Down - -	107 36 47	84403
Warren Spire -	. . .	
Precelly Top -	46 35 33	117348
Plumstone Down -	99 15 4	86375
St. Petrook's Steeple -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Precelly Top from Lannon 157603 feet.		
Precelly Top - -	47 48 20	37785
Lannon - -	11 57 14	135155
Brenin Vawr -	120 14 26	
New Inn Hill to Lannon 84401,8 feet.		
New Inn Hill -	101 4 23	90602
Lannon - -	41 8 3	135165
Brenin Vawr -	. . .	
St. Ann's Hill from Precelly Mountain 128173,9 feet.		
St. Ann's Hill -	158 8 26	4318
Precelly Top - -	0 41 49	132192
St. Ann's Lighthouse -	. . .	
St. Ann's Hill -	24 43 45	36892
Precelly Top - -	9 15 34	95914
Steinton Steeple -	. . .	
St. Ann's Hill -	66 10 58	56552
Precelly Top - -	26 9 29	117356
St. Petrock's Steeple - -	. . .	
St. Ann's Hill -	16 20 44	44552
Precelly Top - -	8 21 1	86337
Johnstone Steeple - -	. . .	
St. Ann's Hill -	72 31 42	45255
Precelly Top - -	20 38 32	122448
Warren Spire - -	. . .	
Plumstone Down from St. Ann's Hill 69637 ft.		
Plumstone Down -	37 46 31	81425
St. Ann's Hill -	83 57 37	50156
Sir Hugh Owen's Summer House - -	. . .	
	27 31 7	10786
Plumstone Down -	4 44 32	60278
St. Ann's Hill - -	. . .	
Roach Castle - -		
	36 12 45	84879
Plumstone Down -	18 40 56	50158
St. Ann's Hill -	. . .	
St. Twinell's Steeple - -		
	39 11 31	110896
Plumstone Down -	103 6 10	71951
St. Ann's Hill -	. . .	
Highest Point of Gresholm Island - - -		

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Plumstone Down -	45 16 23	151963
St. Ann's Hill -	109 3 39	114227
Small's Lighthouse -	. . .	
Plumstone Down -	86 36 16	50209
St. Ann's Hill -	36 56 16	83403
Penbury Rock - -	. . .	
Plumstone Down -	64 6 47	69156
St. Ann's Hill - -	57 37 35	73666
Highest Point of Ramsey Island - -	. . .	
Plumstone Down -	143 54 24	41984
St. Ann's Hill -	13 25 55	106475
Puncheston Steeple -	. . .	
Plumstone Down -	102 47 59	36497
St. Ann's Hill -	24 36 12	85483
Ruins of a Windmill near St. David's - -	. . .	
Plumstone Down -	45 6 48	78248
St. Ann's Hill -	75 25 24	57283
St. Daniel's Spire -	. . .	
St. Ann's Hill from Highgate Mountain 53271,6 feet.		
St. Ann's Hill -	10 10 30	50155
Highgate Mountain -	66 12 43	9683
St. Twinell's Steeple -	. . .	
St. Ann's Hill - -	21 13 27	34631
Highgate Mountain -	30 50 57	24449
Summer House at Milford	. . .	
St. Ann's Hill - -	34 13 19	36887
Highgate Mountain -	42 20 5	30804
Steinton Steeple -	. . .	
St. Ann's Hill - -	42 36 30	44556
Highgate Mountain -	55 49 36	36458
Johnstone Steeple -	. . .	
St. Ann's Hill - -	3 5 16	57276
Highgate Mountain -	141 48 17	4989
St. Daniel's Spire -	. . .	
St. Ann's Hill - - -	24 35 18	32280
Highgate Mountain -	29 18 51	27432
Milford Steeple -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
St. Ann's Hill - -	26 9 32	30872
Highgate Mountain -	28 1 59	28959
Milford Market House	. . .	
St. Ann's Hill - -	77 30 44	73215
Highgate Mountain -	62 21 22	80694
Plumstone Rock -	. . .	
St. Ann's Hill - -	29 52 12	26868
Highgate Mountain -	24 3 31	32824
Hubberstone Steeple -	. . .	
St. Ann's Hill - -	136 8 1	73666
Highgate Mountain -	25 38 5	117986
Highest Point of Ramsey Island - -	. . .	
St. Ann's Hill - -	122 23 25	81773
Highgate Mountain -	35 25 28	119130
Llyddy Rock - -	. . .	
Plumstone Down from Highgate Mountain 78797.4 feet.		
Plumstone Down -	91 6 32	32045
Highgate Mountain -	21 58 13	85637
Amblestone Steeple - -	. . .	
Plumstone Down -	83 3 6	51401
Highgate Mountain -	35 6 27	88719
Mote Steeple -	. . .	
Plumstone Down -	102 25 19	41984
Highgate Mountain -	25 1 29	96928
Puncheston Steeple -	. . .	
Precelly Top from Highgate Mountain 110560.7 feet.		
Precelly Top - - -	5 37 1	12896
Highgate Mountain -	0 44 24	97735
Maenclochogue Steeple	. . .	
Marros Beacon from Newton Down 71196.8 feet.		
Marros Beacon -	18 17 24	54605
Newton Down - -	41 31 43	25847
Carew Steeple -	. . .	
Marros Beacon -	69 25 4	83105
Newton Down - -	2 22 27	70166
Marros Steeple - -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Newton Down from Highgate Mountain 27439 feet.		
	° ′ ″	
Newton Down -	60 6 51	28493
Highgate Mountain -	76 6 1	34381
Carew Beacon -	. . .	
Newton Down - -	79 6 56	67873
Highgate Mountain -	77 37 34	68237
Carew Windmill -	. . .	
Rhiw Mountain from Moel Rhyddlad 200017.7 feet.		
Rhiw Mountain -	63 24 51	26991
Moel Rhyddlad -	7 19 7	189482
Old Windmill on Mynydd Mynidbod - -	. . .	
Rhiw Mountain -	34 20 22	67441
Moel Rhyddlad -	14 45 59	149260
Rivel Mountain, highest Point - -	. . .	
Llwydiart Mountain from Llanelian Mountain in Anglesea 48180.5 feet.		
Llwydiart Mountain -	129 8 48	53636
Llanelian Mountain -	26 53 9	91984
Barrow on Penmaen Mawr	. . .	
Llwydiart Mountain -	17 57 38	31449
Llanelian Mountain -	27 58 0	20679
Bodafon Fire Beacon -	. . .	
Llwydiart Mountain -	102 42 41	12620
Llanelian Mountain -	13 34 56	52424
Windmill near Llandonna	. . .	
Llwydiart Mountain -	38 41 13	41434
Llanelian Mountain -	58 32 52	30358
Llanerchmedd Windmill	. . .	
Llwydiart Mountain -	63 26 35	18719
Llanelian Mountain -	22 48 35	43173
Windmill near Llanbedrgoch - -	. . .	
Llwydiart Mountain -	45 8 6	36602
Llanelian Mountain -	49 14 32	34249
Gwdona Church -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Llwydiart Mountain -	8 52 36	39937
Llanelian Mountain -	35 14 33	10680
Highest Rock on Ynys Gadarn - -	. . .	
Llwydiart Mountain -	12 50 37	27749
Llanelian Mountain -	16 16 37	22008
Large Stone on Ynys traeth Bychan - -	. . .	
Llwydiart Mountain -	144 43 53	110579
Llanelian Mountain -	24 45 21	152475
Belvidere near Plasnewydd	. . .	
Llwydiart Mountain -	69 24 31	91662
Llanelian Mountain -	79 28 28	87275
Rock on the Summit of a Hill near Rhoscollyn	. . .	

Llwydiart Mountain from Moel Rhyddlad 85401,1 feet.

Llwydiart Mountain -	32 21 36	91663
Moel Rhyddlad -	80 46 8	49705
Rock on the Summit of a Hill near Rhoscollyn	. . .	
Llwydiart Mountain -	153 18 25	65109
Moel Rhyddlad -	11 30 52	146520
Barrow on Carnedd David	. . .	
Llwydiart Mountain -	87 59 31	125451
Moel Rhyddlad -	57 7 59	149267
Rivel Mountain highest Point - -	. . .	
Llwydiart Mountain -	91 44 19	114285
Moel Rhyddlad -	52 7 6	144729
Gerwyn Goch, highest Point	. . .	
Llwydiart Mountain -	61 36 54	52624
Moel Rhyddlad -	37 28 40	76090
South-east Chimney of Bodorgan House -	. . .	
Llwydiart Mountain -	54 15 54	47400
Moel Rhyddlad -	33 41 17	69367
Windmill near Tresdraeth	. . .	
Llwydiart Mountain -	84 18 23	166668
Moel Rhyddlad -	67 26 59	179576
Pile of Stones on a high Hill near Edern -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	

Llanelian Mountain in Anglesea from Moel Rhyddlad 55199,1 feet.

Llanelian Mountain -	64 41 20	196118
Moel Rhyddlad -	99 10 44	179590
Pile near Edern -	. . .	
Llanelian Mountain -	138 6 14	91976
Moel Rhyddlad -	26 24 45	138075
Barrow on Penmaen Mawr	. . .	
Llanelian Mountain -	83 15 11	20679
Moel Rhyddlad -	21 15 49	56625
Bodafon Fire Beacon -	. . .	
Llanelian Mountain -	67 20 25	68365
Moel Rhyddlad -	65 25 2	69376
Windmill near Tresdraeth	. . .	
Llanelian Mountain -	88 24 44	43170
Moel Rhyddlad -	38 37 42	69127
Windmill near Llanbedrgoch - -	. . .	
Llanelian Mountain -	14 48 5	68026
Moel Rhyddlad -	121 18 19	20339
Skerry Lighthouse -	. . .	
Llanelian Mountain -	121 7 53	112705
Moel Rhyddlad -	40 22 20	148937
Carnedd Llewellyn, highest Point - -	. . .	
Llanelian Mountain -	117 10 36	112849
Moel Rhyddlad -	43 14 38	146533
Barrow on Carnedd David	. . .	
Llanelian Mountain -	15 46 32	66982
Moel Rhyddlad -	116 57 12	20429
Flagstaff on Skerry Island	. . .	
Llanelian Mountain -	124 48 22	52421
Moel Rhyddlad -	26 49 26	95386
Windmill near Llandonna	. . .	
Llanelian Mountain -	52 40 23	30357
Moel Rhyddlad -	33 16 10	44004
Llanerchmedd Windmill	. . .	
Llanelian Mountain -	28 10 56	10834
Moel Rhyddlad -	6 23 43	45935
Amlwch Steeple -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Llanelian Mountain -	14 44 48	56238
Moel Rhyddlad -	86 44 54	14338
Highest Point of the West Mouse - -	. . .	
Llanelian Mountain -	81 19 42	3995
Moel Rhyddlad -	4 8 16	54739
Llanelian Spire -	. . .	
Llanelian Mountain -	117 18 17	6235
Moel Rhyddlad -	5 27 5	58323
Signal Staff on Point Elianus - -	. . .	
Llanelian Mountain in Anglesea from Garreg Mountain 221262,5 feet.		
Llanelian Mountain -	80 33 58	6235
Garreg Mountain -	1 35 59	220326
Signal Staff on Point Elianus - -	. . .	
Llanelian Mountain in Denbighshire from Garreg Mountain 95119,6 feet.		
Llanelian Mountain -	10 0 4	79970
Garreg Mountain -	40 19 17	21463
Signal Staff near Gwaunysgaer - -	. . .	
Llanelian Mountain -	27 59 39	110527
Garreg Mountain -	92 43 53	51938
Moel Fammau -	. . .	
Llanelian Mountain -	9 30 57	81825
Garreg Mountain -	43 10 8	19772
St. Elmo Summer House	. . .	
Llanelian Mountain in Denbighshire from Llanelian Mountain in Anglesea 134702,5 feet.		
Llanelian Mountain -	138 37 5	81840
Llanelian Mountain -	15 25 23	203434
St. Elmo Summer House	. . .	
Llanelian Mountain -	9 49 4	88262
Llanelian Mountain -	17 30 0	50049
Llandonna Signal Staff	. . .	
Llanelian Mountain in Denbighshire from Cyrn y Brain Mountain 145773,8 feet.		
Llanelian Mountain -	13 24 32	110527
Cyrn y Brain Mountain	33 49 6	46052
Moel Fammau -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Llanelian Mountain -	25 44 43	151441
Cyrn y Brain Mountain	81 53 48	66445
Pile of Stones on Cader Ferwyn - -	. . .	
Base Line on Rhuddlan Marsh 24514,3 feet.		
East End of Base -	128 28 45	12670
West End of Base -	17 1 17	33882
St. Asaph Cathedral -	. . .	
East End of Base -	102 22 45	1591
West End of Base -	3 34 37	24904
Rhuddlan Steeple -	. . .	
East End of Base -	8 9 59	24390
West End of Base -	83 52 37	3484
Abergele Steeple -	. . .	
East End of Base -	143 40 2	58508
West End of Base -	25 49 7	79593
Earl Grosvenor's Summer House - -	. . .	
East End of Base -	151 23 42	23530
West End of Base -	14 0 12	46556
Goperlini Fire Beacon	. . .	
East End of Base -	38 54 15	23723
West End of Base -	67 53 18	16081
Melwyn Glodadd Old Windmill -	. . .	
East End of Base -	9 53 0	33824
West End of Base -	146 36 31	10549
Signal Staff on Cave Hill	. . .	
East End of Base from Moelfre Issa 26427,8 ft.		
East End of Base -	81 30 13	112800
Moelfre Issa -	85 0 23	112047
Highest Point of Moel Morwith - -	. . .	
East End of Base from Gwaunysgaer Down 20981,2 feet.		
East End of Base -	114 34 44	8145
Gwaunysgaer Down -	16 54 25	25470
Flagstaff at Wygfair -	. . .	
East End of Base -	16 11 42	23528
Gwaunysgaer Down -	103 48 35	6757
Goperlini Fire Beacon	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
West End of Base from Moelfre Issa 17602,2 ft.		
West End of Base -	70 51 15	10548
Moelfre Issa -	35 10 2	17301
Signal Staff on Cave Hill	. . .	
Cyrn y Brain Mountain from Long Mountain 144778,5 feet.		
Cyrn y Brain Mountain	48 54 57	66443
Long Mountain -	26 20 53	112838
Pile of Stones on Cader Forwyn - -	. . .	
Cyrn y Brain Mountain	125 5 3	35682
Long Mountain -	10 1 5	167846
Fire Beacon near Caergwrle Castle -	. . .	
Cyrn y Brain Mountain	124 32 49	82609
Long Mountain -	19 32 56	203346
Trinity Spire, Chester -	. . .	
Cyrn y Brain Mountain from Delamere Forest 126431,6 feet.		
Cyrn y Brain Mountain	16 41 6	190893
Delamere Forest -	135 49 58	78661
Winwick Spire -	. . .	
Cyrn y Brain Mountain	59 36 56	63661
Delamere Forest -	30 14 0	109067
Moel y Gaer Fire Beacon	. . .	
Cyrn y Brain Mountain from Garreg Mountain 97450 feet.		
Cyrn y Brain Mountain	14 46 20	63664
Garreg Mountain -	24 20 13	39391
Moel y Gaer Fire Beacon	. . .	
Cyrn y Brain Mountain	31 14 29	94662
Garreg Mountain -	71 24 31	51799
Neston Steeple -	. . .	
Cyrn y Brain Mountain	64 26 10	82610
Garreg Mountain -	50 19 50	96815
Trinity Spire, Chester -	. . .	
Garreg Mountain from Delamere Forest 137294 feet.		
Garreg Mountain -	49 8 8	63044
Delamere Forest -	26 24 0	107229
Bidston Lighthouse -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Garreg Mountain -	43 14 41	79498
Delamere Forest -	34 27 14	96273
St. Paul's, Liverpool -	. . .	
Delamere Forest from Ashley Heath 129401,1 feet.		
Delamere Forest -	34 18 16	34050
Ashley Heath -	10 43 47	103076
Beeston Castle, highest Point - -	. . .	
Delamere Forest from Belle-field Hill 53307,1 feet.		
Delamere Forest -	28 33 50	40741
Belle-field Hill -	48 1 29	26202
Halton Castle -	. . .	
Delamere Forest -	11 15 56	78654
Belle-field Hill - -	147 11 18	28356
Winwick Spire -	. . .	
Delamere Forest from Billinge Beacon 104463,5 feet.		
Delamere Forest -	15 53 24	148512
Billinge Beacon -	133 20 33	55910
Rivington Pike - -	. . .	
Delamere Forest -	48 32 56	107223
Billinge Beacon -	67 22 52	87062
Bidston Lighthouse -	. . .	
Delamere Forest from Heswell Hill 99750,6 ft.		
Delamere Forest -	21 32 16	96271
Heswell Hill - -	73 54 4	36785
St. Paul's, Liverpool -	. . .	
Delamere Forest -	111 22 52	34059
Heswell Hill - -	15 47 17	116564
Beeston Castle -	. . .	
Heswell Hill from Billinge Beacon 105303,5 ft.		
Heswell Hill -	39 4 21	25400
Billinge Beacon -	10 35 45	87068
Bidston Lighthouse -	. . .	
Heswell Hill -	164 30 3	212108
Billinge Beacon -	10 22 17	314842
Highest Point of Tryfan Rock in Wales -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Heswell Hill -	51 43 17	76157
Billinge Beacon -	45 48 22	83383
N. W. Landmark near Formby - -	. . .	
Heswell Hill - -	46 55 55	75453
Billinge Beacon -	45 42 22	77010
S. E. Landmark near Formby - -	. . .	
Heswell Hill -	56 57 37	60093
Billinge Beacon -	32 14 25	67729
Crosby Steeple - -	. . .	
Heswell Hill - -	92 7 20	27779
Billinge Beacon -	14 37 53	109896
Helbre Lighthouse -	. . .	
Heswell Hill -	23 20 27	22120
Billinge Beacon -	5 53 13	85445
Bebbington Spire -	. . .	
Heswell Hill -	132 28 58	48899
Billinge Beacon -	14 36 42	142952
Point of Air Lighthouse	. . .	
Heswell Hill - -	28 18 30	68633
Billinge Beacon -	35 57 2	55438
Sephton Spire -	. . .	
Heswell Hill - -	8 21 54	46312
Billinge Beacon -	6 27 43	59864
Wavertree Steeple -	. . .	
Heswell Hill -	24 58 35	93259
Billinge Beacon -	62 11 42	44518
Windmill on the Race-ground near Ormskirk	. . .	
Heswell Hill - -	62 52 50	29614
Billinge Beacon -	16 1 11	95513
Leasowes Lighthouse -	. . .	
Garreg Mountain from Heswell Hill		45852,5 ft.
Garreg Mountain -	45 28 23	100938
Heswell Hill -	109 6 28	76156
N. W. Landmark near Formby - -	. . .	
Garreg Mountain -	42 4 25	102951
Heswell Hill -	113 53 50	75454
S. E. Landm. near Formby	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Garreg Mountain -	35 53 26	44147
Heswell Hill - -	68 42 25	27777
Helbre Lighthouse -	. . .	
Garreg Mountain -	20 10 25	51792
Heswell Hill - -	98 47 32	18074
Neston Steeple -	. . .	
Garreg Mountain -	83 4 5	23385
Heswell Hill - -	28 20 46	48893
Point of Air Lighthouse	. . .	
Garreg Mountain -	38 9 41	21166
Heswell Hill - -	24 7 10	32004
Pen Maes Amwell Windmill - -	. . .	
Garreg Mountain -	12 45 21	74563
Heswell Hill - -	148 30 16	31513
Eastham Spire -	. . .	
Cyrn y Brain Mountain from Heswell Hill		108837,6 feet.
Cyrn y Brain Mountain	16 29 5	110635
Heswell Hill - -	84 59 34	31514
Eastham Spire -	. . .	
Cyrn y Brain Mountain	39 31 48	82603
Heswell Hill - -	49 21 35	69286
Trinity Spire, Chester -	. . .	
Heswell Hill from Belle-field Hill		113961,3 ft.
Heswell Hill - -	24 27 7	73205
Belle-field Hill -	32 38 53	56182
Prescot Spire -	. . .	
Heswell Hill - -	45 27 12	43937
Belle-field Hill -	20 38 17	88840
Everton Flagstaff -	. . .	
Billinge Beacon from Belle-field Hill		63369,2 ft.
Billinge Beacon -	89 18 48	63033
Belle-field Hill - -	45 11 21	88843
Everton Flagstaff -	. . .	
Billinge Beacon -	62 0 30	34885
Belle-field Hill - -	33 10 57	56186
Prescot Spire - -	. . .	
Billinge Beacon -	23 47 58	63724
Belle-field Hill - -	78 51 49	26203
Halton Castle -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Billinge Beacon -	109 15 17	55917
Belle-field Hill - -	32 50 0	97363
Rivington Pike -	. . .	
Billinge Beacon -	74 59 10	85446
Belle-field Hill - -	63 27 6	92256
Bebbington Spire -	. . .	
Billinge Beacon -	3 57 7	50834
Belle-field Hill - -	15 28 25	13132
Sankey Street Chapel, Warrington - -	. . .	
Billinge Beacon -	7 20 47	51889
Belle-field Hill - -	29 7 45	13630
Warrington Steeple -	. . .	
Billinge Beacon -	57 18 29	102305
Belle field Hill - -	84 37 3	86480
St. Mary's Spire, Manchester - -	. . .	
Billinge Beacon -	129 50 6	31489
Belle-field Hill - -	16 8 33	86969
Standish Spire -	. . .	
Billinge Beacon from Go Hill 46647,8 feet.		
Billinge Beacon -	86 23 15	31486
Go Hill - -	35 7 42	54610
Standish Spire -	. . .	
Billinge Beacon -	42 39 15	22825
Go Hill - -	27 22 52	33628
Asburst Beacon -	. . .	
Billinge Beacon -	26 57 20	55438
Go Hill - -	96 17 6	25282
Sephton Spire -	. . .	
Billinge Beacon -	30 39 53	67721
Go Hill - -	108 34 12	36435
Crosby Steeple -	. . .	
Billinge Beacon -	20 27 49	77220
Go Hill - -	133 35 20	37273
North Meals Spire -	. . .	
Billinge Beacon -	3 12 36	58654
Go Hill - -	164 35 17	12358
Halsall Spire -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Billinge Beacon -	105 39 4	42741
Go Hill - -	35 16 35	71264
Blackrod Steeple -	. . .	
Billinge Beacon -	9 56 40	45926
Go Hill - -	79 54 15	8056
Aughton Spire -	. . .	
Billinge Beacon -	22 40 55	63726
Go Hill - -	116 18 31	27413
Blundell's Summer House	. . .	
Llanelian Mountain in Denbighshire from Billinge Beacon 239683 feet.		
Llanelian Mountain -	8 31 56	184143
Billinge Beacon -	25 23 13	63726
Blundell's Summer House	. . .	
Garreg Mountain from Billinge Beacon 149374,3 feet.		
Garreg Mountain -	15 54 47	122863
Billinge Beacon - -	47 10 34	45929
Aughton Spire -	. . .	
Heswell Hill from Go Hill 93756,3 feet.		
Heswell Hill -	25 25 47	76159
Go Hill - -	52 37 48	41149
N. W. Landmark near Formby - -	. . .	
Heswell Hill -	20 38 25	75454
Go Hill - -	48 58 12	35258
S. E. Landm. near Formby	. . .	
Heswell Hill - -	1 54 8	97911
Go Hill - -	141 36 16	5233
Ormskirk Spire -	. . .	
Heswell Hill - -	1 18 55	93260
Go Hill - -	76 19 0	2203
Windmill on the Race-ground near Ormskirk	. . .	
Heswell Hill -	36 35 18	29607
Go Hill - -	14 9 11	72175
Leasowe's Lighthouse -	. . .	
Billinge Beacon from Wittle Hill 113827,4 feet.		
Billinge Beacon -	35 47 10	102312
Wittle Hill - -	62 44 11	67305
St. Mary's Spire, Manches.	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Wittle Hill - -	98 54 58	8823
Billinge Beacon -	76 45 23	115524
Knoll Hill - -	. . .	
Knoll Hill - -	156 33 49	35962
Wittle Hill -	18 52 56	44196
Bennington Steeple -	. . .	
Knoll Hill - -	137 27 6	40456
Wittle Hill -	35 18 25	47333
Lord Gray's Belvidere	. . .	
Wittle Hill from Boulsworth Hill 64650,8 feet.		
Wittle Hill - -	54 38 20	63509
Boulsworth Hill -	61 41 33	58828
Justice Waller's Pleasure House - -	. . .	
Boulsworth Hill from Ingleborough Hill 141994,3 feet.		
Boulsworth Hill -	0 4 39	142051
Ingleborough Hill -	106 24 0	200
Old Building on Ingleborough Hill -	. . .	
Boulsworth Hill -	12 13 24	127448
Ingleborough Hill -	57 7 52	32126
Highest Rock on Penningant Hill - -	. . .	
Boulsworth Hill from Rumbles Moor 68367,9 feet.		
Boulsworth Hill -	58 27 15	140262
Rumbles Moor - -	92 24 8	119640
Highest Barrow on Cam Fell - -	. . .	
Boulsworth Hill -	55 16 54	39128
Rumbles Moor - -	34 54 40	56196
Pinnow Fire Beacon -	. . .	
Rumbles Moor from Ledstone Beacon 119122,5 feet.		
Rumbles Moor -	35 45 31	121777
Ledstone Beacon -	74 4 37	74002
Staincross Fire Beacon	. . .	
Rumbles Moor -	53 45 27	44971
Ledstone Beacon -	21 24 12	99390
Fire Beacon on a Rock near Otley - -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Rumbles Moor -	39 42 6	116405
Ledstone Beacon -	68 19 8	80020
Blackett's Gazebo -	. . .	
Rumbles Moor -	35 1 59	180819
Ledstone Beacon -	105 34 36	107756
Woburnstand Monument	. . .	
Rumbles Moor -	30 19 10	162023
Ledstone Beacon -	104 13 41	84381
York Spire - -	. . .	
Rumbles Moor -	25 17 13	107386
Ledstone Beacon -	64 21 2	50884
Wakefield Spire -	. . .	
Ledstone Beacon from Staincross Heights 78589,6 feet.		
Ledstone Beacon -	7 23 4	73996
Staincross Heights -	61 17 53	10843
Staincross Fire Beacon	. . .	
Ledstone Beacon -	13 8 32	80022
Staincross Heights -	87 54 44	18207
Blackett's Gazebo -	. . .	
Ledstone Beacon -	24 6 56	107753
Staincross Heights -	114 10 15	48256
Woburnstand Monument	. . .	
Ledstone Beacon -	17 6 38	50883
Staincross Heights -	26 33 5	33491
Wakefield Spire -	. . .	
Ledstone Beacon -	20 5 52	51060
Staincross Heights -	29 47 53	35307
Wakefield New Church	. . .	
Ledstone Beacon -	120 59 59	50820
Staincross Heights -	22 34 40	113459
Brayton Spire -	. . .	
Ledstone Beacon -	109 35 22	75941
Staincross Heights -	34 30 45	126275
Drax Spire - -	. . .	
Ledstone Beacon -	38 54 13	82705
Staincross Heights -	74 40 49	53853
Bilham Grange Summer House - -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Rumbles Moor from Staincross Heights 132613,5 feet.		
Rumbles Moor -	46° 25′ 13″	47469
Staincross Heights -	18 59 46	105643
Swilling End Fire Beacon	. . .	
Rumbles Moor -	17 51 7	50788
Staincross Heights -	10 28 4	85697
Windm. on Clayton Heights	. . .	
Rumbles Moor -	6 27 0	125028
Staincross Heights -	59 11 8	16354
High Howland Church Tower - -	. . .	
Ledstone Beacon from Hambleton Down 173679,7 feet.		
Ledstone Beacon -	52 24 54	99397
Hambleton Down -	34 51 57	137787
Fire Beacon on a Rock near Otley - -	. . .	
Ledstone Beacon -	95 7 49	75946
Hambleton Down -	22 44 25	195682
Drax Spire - -	. . .	
Ledstone Beacon -	88 46 35	98507
Hambleton Down -	29 51 21	197832
Howden Steeple -	. . .	
Ledstone Beacon -	48 41 0	139139
Hambleton Down -	51 56 32	132722
Bishop Wilton Spire -	. . .	
Ledstone Beacon -	26 35 2	33280
Hambleton Down -	5 54 29	144687
Obelisk near Bramham	. . .	
Ledstone Beacon from Black Hambleton 194930,8 feet.		
Ledstone Beacon -	23 45 4	33280
Black Hambleton -	4 39 33	165015
Obelisk near Bramham	. . .	
Ledstone Beacon -	51 30 58	139135
Black Hambleton -	45 8 56	153627
Bishop Wilton Spire -	. . .	
Ledstone Beacon -	86 37 10	50823
Black Hambleton -	14 48 24	198526
Brayton Spire - -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Ledstone Beacon -	66° 10′ 39″	92388
Black Hambleton -	28 12 4	178845
Fire Beacon westward of Otley - -	. . .	
Rumbles Moor from Black Hambleton 192504,3 feet.		
Rumbles Moor -	57 14 2	28147
Black Hambleton -	7 36 18	178844
Fire Beacon westward of Otley - -	. . .	
Rumbles Moor -	155 30 21	47476
Black Hambleton -	4 46 25	236528
Swilling End Fire Beacon	. . .	
Hambleton Down from Wilton Beacon 133262,7 feet.		
Hambleton Down -	24 39 11	197832
Wilton Beacon -	119 25 15	94738
Howden Steeple -	. . .	
Hambleton Down from Black Hambleton 23119,3 feet.		
Hambleton Down -	104 34 38	76521
Black Hambleton -	60 13 13	85326
Northmost Tower on Ripon Church - -	. . .	
Wilton Beacon from Hunsley Beacon 82862,3 ft.		
Wilton Beacon -	42 50 24	94741
Hunsley Beacon -	78 15 19	65797
Howden Steeple -	. . .	
Wilton Beacon - -	27 6 26	57395
Hunsley Beacon -	39 27 34	41151
Home Church Tower -	. . .	
Burleigh Moor from Easington Heights 42270,7 feet.		
Burleigh Moor -	40 44 51	51504
Easington Heights -	84 28 29	33774
Danby Fire Beacon -	. . .	
Burleigh Moor -	126 21 42	54368
Easington Heights -	30 26 25	86416
Hartlepool Steeple -	. . .	
Burleigh Moor -	138 30 6	87740
Easington Heights -	28 17 48	122640
A white Spire - -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Burleigh Moor -	149 34 18	110856
Easington Heights -	22 9 33	148852
Signal Staff - -	. . .	
Burleigh Moor -	119 23 4	162322
Easington Heights -	49 14 22	186731
Signal Staff near Sunderl.	. . .	
Burleigh Moor -	121 58 14	143727
Easington Heights -	45 50 51	169935
Sunderland Steeple -	. . .	
Burleigh Moor -	135 19 28	14811
Easington Heights -	11 9 24	53820
A Church Tower with high Pinnacles - -	. . .	
Burleigh Moor -	104 59 47	16715
Easington Heights -	19 6 44	49313
Gable End of a House at Redcar - -	. . .	
Burleigh Moor -	122 10 46	19531
Easington Heights -	17 25 26	55205
Centre Pediment of a House at Cotham -	. . .	
Burleigh Moor -	100 32 7	16038
Easington Heights -	19 13 48	47875
Redcar Staff -	. . .	
Burleigh Moor -	120 26 16	48875
Easington Heights -	32 9 20	79176
Windmill on the Summit of a Hill near Houghton	. . .	
Burleigh Moor -	151 57 52	25891
Easington Heights -	10 35 4	66251
Church Tower among Trees	. . .	
Burleigh Moor from Botton Head 60956,5 feet.		
Burleigh Moor -	24 24 11	26094
Botton Head - -	16 9 54	38724
Roseberry Topping -	. . .	
Burleigh Moor -	137 31 38	54367
Botton Head - -	19 57 52	107520
Hartlepool Steeple -	. . .	
Burleigh Moor -	78 27 10	57827
Botton Head - -	48 55 31	75156
Stockton Market House	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Burleigh Moor -	72 42 42	53175
Botton Head - -	48 21 8	67947
Windmill near Stockton	. . .	
Botton Head from Easington Heights 77788,9 feet.		
Botton Head - -	30 31 52	13433
Easington Heights -	5 53 2	66569
Westerdale Station -	. . .	
Botton Head - -	52 39 56	107500
Easington Heights -	81 37 6	86397
Hartlepool Church Tower	. . .	
Botton Head - -	52 3 1	108348
Easington Heights -	82 33 33	86163
Hartlepool Signal Staff	. . .	
Loosehoe Moor from Botton Head 35244,2 feet.		
Loosehoe Moor -	126 52 48	141943
Botton Head - -	43 18 47	165513
Church Tower near Scarborough - -	. . .	
Hunsley Beacon from Crowle Beacon 87370 ft.		
Hunsley Beacon -	113 23 1	48631
Crowle Beacon -	22 42 25	115633
Nunburnbolme Station -	. . .	
Hunsley Beacon -	1 9 56	89520
Crowle Beacon -	139 29 49	2804
Crowle Steeple - -	. . .	
Clifton Beacon from Crowle Beacon 102613,6 feet.		
Clifton Beacon -	41 40 20	123690
Crowle Beacon -	82 54 53	82871
Selby Steeple - -	. . .	
Crowle Beacon -	85 10 58	88930
Clifton Beacon -	42 53 36	129893
Brayton Spire - -	. . .	
Clifton Beacon -	47 5 56	73349
Crowle Beacon -	45 33 53	75248
Gringley Steeple -	. . .	
Clifton Beacon -	24 26 33	81680
Crowle Beacon -	50 6 20	44052
Axholme Steeple -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Clifton Beacon -	° ′ ″ 124 42 6	25409
Crowle Beacon - -	10 6 59	118928
Loughton Spire -	. . .	
Clifton Beacon -	21 53 6	46610
Crowle Beacon - -	16 18 48	61852
Hatfield Steeple -	. . .	
Clifton Beacon -	9 56 5	82725
Crowle Beacon - -	34 2 19	25497
Thorne Steeple -	. . .	
Gringley Beacon from Crowle Beacon 74543,4 feet.		
Gringley Beacon -	7 58 2	45578
Crowle Beacon -	12 7 30	30076
Epworth Steeple -	. . .	
Crowle Beacon -	12 14 55	22457
Gringley Beacon -	5 10 33	52812
Belton Steeple - -	. . .	
Gringley Beacon from Clifton 75068l,1 feet.		
Gringley Beacon -	33 19 4	18483
Clifton Beacon - -	9 39 49	60481
Missin Steeple -	. . .	
Gringley to North End of Base 44338,2 feet.		
Gringley Beacon -	21 18 32	52817
North End of Base -	104 13 50	19801
Belton Steeple - -	. . .	
Gringley Beacon -	24 6 14	45580
North End of Base -	81 38 58	18814
Epworth Steeple -	. . .	
Gringley Beacon -	91 11 38	30661
Clifton Beacon -	22 2 37	81678
Axholme Steeple -	. . .	
Gringley Beacon -	80 31 8	10724
Clifton Beacon -	8 12 41	74061
Retford Spire - -	. . .	
Staincross Heights from Clifton Beacon 79929,2 feet.		
Staincross Heights -	11 31 2	67978
Clifton Beacon -	45 32 21	19017
Milton Steeple - -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
North End of Base to South End of Base 26342,7 feet.		
North End of Base -	° ′ ″ 22 27 39	5851
South End of Base -	6 5 39	21055
Wroot Chapel - -	. . .	
Go Hill from Beryl Hill 104867,8 feet.		
Go Hill - -	80 46 44	5231
Beryl Hill - -	2 50 27	104158
Ormskirk Spire -	. . .	
Go Hill - -	3 17 40	67162
Beryl Hill - -	5 49 39	38013
Flagstaff near North Meals	. . .	
Go Hill - -	104 11 55	33629
Beryl Hill - -	16 4 40	117721
Ashurst Beacon -	. . .	
Beryl Hill - -	120 43 14	2973
Ashurst Beacon -	58 3 4	119268
North Station on the Cliff near Blackpool -	. . .	
Beryl Hill - -	23 25 12	3316
North Station -	93 0 51	1320
South Station on the Cliff near Blackpool -	63 33 57	
Beryl Hill - -	80 41 39	6910
North Station - -	74 46 25	7067
Flagstaff with a Vane on the Sea-coast -	. . .	
Beryl Hill - -	100 19 56	6470
North Station - -	56 59 57	7590
Bispham Church Tower	. . .	
Beryl Hill - -	103 41 17	32912
North Station -	71 24 0	33739
Summer House near Rossal	. . .	
Beryl Hill - -	104 6 55	6911
South Station -	53 16 10	8363
Flagstaff with a Vane near the Sea-coast -	. . .	
Beryl Hill - -	123 45 13	6463
South Station - -	37 53 1	8752
Bispham Church Tower	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Beryl Hill - -	127 6 34	32915
South Station -	48 33 34	35016
Summer House near Rossal	. . .	
Beryl Hill from Black Comb 164674,5 feet.		
Beryl Hill - -	18 12 52	29622
Black Comb -	3 52 46	136851
Landmark, Rossal Point	. . .	
Beryl Hill - -	96 58 13	11035
Black Comb - -	3 46 29	166373
Poulton Church Tower	. . .	
Black Comb from Ingleborough Hill 201970,3 feet.		
Black Comb -	52 11 26	60478
Ingleborough Hill -	16 9 35	171678
Pile of Stones on Coniston Fell - -	. . .	
Black Comb - -	79 58 11	75972
Ingleborough Hill -	21 37 19	203024
Highest Point of Sca-Fell	. . .	
Black Comb - -	55 50 8	78749
Ingleborough Hill -	22 26 38	170675
Peel Castle - -	. . .	
Black Comb from The Calf 178609,8 feet.		
Black Comb -	47 7 42	135152
The Calf - -	48 49 3	131607
Lancaster Church Tower near the Castle -	. . .	
Black Comb -	29 43 7	60481
The Calf - -	13 22 37	129599
Coniston Fell -	. . .	
Black Comb -	60 48 18	85156
The Calf - -	28 28 20	155932
Pile of Stones on Great Gavel - -	. . .	
Black Comb from Dent Hill 95963,3 feet.		
Black Comb -	7 42 54	119396
Dent Hill - -	144 21 22	27505
Windmill near Whitehaven	. . .	
Black Comb - -	27 11 6	88107
Dent Hill - -	66 23 47	43928
Pile of Stones on the Pillar	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Dent Hill from Scilly Bank 25910,8 feet.		
Dent Hill - -	118 27 25	42963
Scilly Bank - -	39 9 29	59827
Pile of Stones on Red Pike	. . .	
Dent Hill - -	83 45 34	32329
Scilly Bank - -	55 7 39	39172
Pile of Stones on Blake Fell	. . .	
Dent Hill - -	98 4 10	51026
Scilly Bank - -	56 47 21	60384
Highest Point of Grasmere Fell - -	. . .	
Dent Hill - -	94 27 45	37030
Scilly Bank - -	61 54 31	64450
Grisdale Pike -	. . .	
Dent Hill - -	7 44 41	20230
Scilly Bank - -	24 55 36	6453
Windmill near Whelpside Hall - -	. . .	
Dent Hill - -	17 45 28	53191
Scilly Bank - -	146 45 7	29589
Chapel on Workington Head - -	. . .	
Dent Hill from Crif-Fell Hill 162371,1 feet.		
Dent Hill - -	103 22 32	43926
Crif-Fell Hill - -	13 54 42	177747
The Pillar - -	. . .	
Dent Hill - -	1 0 28	136655
Crif-Fell Hill -	5 20 7	25849
Lighthouse, Saturness Point - - -	. . .	
Dent Hill - -	34 30 48	20229
Crif-Fell Hill -	4 29 53	146152
Windmill near Whelpside House - -	. . .	
Scilly Bank from Crif-Fell Hill 139727,3 feet.		
Scilly Bank - -	131 0 27	23356
Crif-Fell Hill - -	6 29 6	156051
Lighthouse, St. Bee's Head - -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
The Calf from Ingleborough Hill 77614,6 feet.		
The Calf - -	120 52 29	151951
Ingleborough Hill -	39 58 13	203020
Sca-Fell - -	. . .	
The Calf - -	70 34 6	179999
Ingleborough Hill -	84 2 11	170670
Peel Castle - -	. . .	
The Calf - -	97 3 30	131604
Ingleborough Hill -	47 7 9	97174
Lancaster Church Tower	. . .	
The Calf - -	17 38 50	95829
Ingleborough Hill -	115 15 21	32122
Pennigant Hill -	. . .	
The Calf - -	35 21 10	62612
Ingleborough Hill -	53 45 58	44914
Kirkby Lonsdale Church Tower - -	. . .	
The Calf - -	6 15 42	56375
Ingleborough Hill -	15 54 24	22435
Whernside in Ingleton Fells	. . .	
The Calf from Water Crag 89384 feet.		
The Calf - -	81 38 29	56376
Water Crag - -	34 29 22	98502
Whernside - -	. . .	
The Calf from Cross Fell 122505,3 feet.		
The Calf - -	26 5 56	122388
Cross Fell - -	76 49 57	55295
Penrith Beacon -	. . .	
The Calf from High Pike 169069,5 feet.		
The Calf - -	19 31 5	122390
High Pike - -	37 16 53	67506
Penrith Beacon -	. . .	
The Calf - -	31 13 25	155925
High Pike - -	66 9 8	88373
Pile of Stones on Great Gavel - -	. . .	
Cross Fell from High Pike 120904,9 feet.		
Cross Fell - -	33 14 21	171570
High Pike - -	103 30 35	96720
Bow Fell - -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Cross Fell - -	2 11 33	113385
High Pike -	29 42 27	8753
Pile of Stones on Carrock Fell - -	. . .	
Cross Fell - -	68 2 3	74815
High Pike -	36 44 59	115967
Cold Fell Pike - -	. . .	
Cross Fell - -	79 24 13	44144
High Pike -	21 2 34	120846
Daffenside Beacon -	. . .	
Cross Fell - -	11 21 49	121303
High Pike -	85 15 55	23983
Saddle Back - -	. . .	
Cross Fell from Crif-Fell Hill 255886,1 feet.		
Cross Fell - -	48 22 48	74820*
Crif-Fell Hill - -	15 10 38	213643
Cold Fell Pike -	. . .	
Cross Fell - -	59 45 0	44144
Crif-Fell Hill -	9 16 10	236739
Daffenside Beacon -	. . .	
Cross Fell - -	21 50 47	113386
Crif-Fell Hill -	15 38 49	156440
Carrock Fell - -	. . .	
Cross Fell from Water Crag 125741,8 feet.		
Cross Fell - -	13 7 52	101367
Water Crag - -	40 26 6	35506
Highest Pile on the Nine Standards - -	. . .	
Cross Fell - -	89 3 29	55673
Water Crag -	24 2 3	136676
Pile of Stones on Kilhope Law - -	. . .	
Crif Fell Hill from High Pike 147733,5 feet.		
Crif-Fell Hill - -	38 41 44	25812
High Pike - -	7 12 30	128605
Lighthouse, Saturness Point - -	. . .	
Crif-Fell Hill - -	65 38 23	25317
High Pike - -	9 32 8	139215
Carlaveroc Castle -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Crif-Fell Hill - -	47 50 47	79672
High Pike - -	32 4 14	111240
Annan Spire - -	. . .	
Crif-Fell - -	48 53 22	78148
High Pike - -	31 25 46	112917
Spire on the Townhouse in Annan - -	. . .	
Crif-Fell - -	32 20 38	213478
High Pike - -	105 56 30	118778
Byers Pike - -	. . .	
Crif-Fell - -	6 23 4	164280
High Pike - -	130 21 55	23976
Saddle Back -	. . .	
Crif-Fell from Wisp Hill 186814,9 feet.		
Crif-Fell - -	20 57 29	169852
Wisp Hill -	65 6 4	66979
Pile on Whin Fell -	. . .	
Wisp Hill from High Pike 212277,5 feet.		
Wisp Hill - -	32 38 47	160458
High Pike - -	48 16 56	115964
Cold Fell Pike -	. . .	
Collier Law from High Pike 229938 feet.		
Collier Law - -	60 25 46	222576
High Pike - -	58 11 10	227816
Pile on Peel Fell -	. . .	
Water Crag from Collier Law 125314,1 feet.		
Water Crag -	28 17 50	136675
Collier Law - -	85 36 44	64981
Kilhope Law -	. . .	
Water Crag - -	29 21 25	167179
Collier Law - -	103 58 31	84458
Durham Cathedral -	. . .	
Botton Head from Wordeslow Hill 176913,7 ft.		
Botton Head -	51 53 39	19174
Wordeslow Hill -	5 13 19	165769
Pile on a Hill near Stokesley	. . .	
Botton Head -	13 34 34	108349
Wordeslow Hill -	19 33 28	75976
Hartlepool Signal Staff	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Botton Head - -	12 57 27	107496
Wordeslow Hill -	18 28 20	76074
Hartlepool Church Tower	. . .	
Wordeslow Hill from Easington Heights 161215,8 feet.		
Wordeslow Hill -	101 54 25	28605
Easington Heights -	9 30 28	169445
Sunderland Lighthouse	. . .	
Wordeslow Hill from Burleigh Moor 130039,1 feet.		
Wordeslow Hill -	113 13 12	28609
Burleigh Moor -	10 32 21	143744
Sunderland Lighthouse	. . .	
Wordeslow Hill -	3 42 50	76072
Burleigh Moor - -	5 12 10	54344
Hartlepool Church Tower	. . .	
Wordeslow Hill -	4 47 49	75978
Burleigh Moor - -	6 40 10	54703
Hartlepool Signal Staff	. . .	
Wordeslow Hill -	131 52 49	41747
Burleigh Moor - -	11 8 8	160938
Windmill on Marston Hill	. . .	
Wordeslow Hill -	129 53 34	44646
Burleigh Moor - -	12 10 56	162329
Signal Staff on Marston Hill - -	. . .	
Burleigh Moor from Brandon Down 150771 feet.		
Burleigh Moor -	22 40 8	102690
Brandon Down - -	35 14 35	68586
Easington Church Tower	. . .	
Burleigh Moor -	36 55 29	162329
Brandon Down - -	77 50 50	99758
Signal Staff on Marston Hill - -	. . .	
Brandon Down from Black Hambleton 187275,6 feet.		
Brandon Down -	31 6 0	49443
Black Hambleton -	9 59 36	147172
Brusselton Folly -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Collier Law from Wordeslow Hill 119613 feet		
Collier Law - -	° ′ ″ 55 52 39	82633
Wordeslow Hill -	43 2 19	100232
Brusselton Folly -	. . .	
Collier Law - -	13 13 41	84455
Wordeslow Hill -	27 19 36	42098
Durham Cathedral -	. . .	
Collier Law - -	39 37 14	81504
Wordeslow Hill -	42 26 38	77015
Westerton Folly - -	. . .	
Collier Law - -	36 47 55	87550
Wordeslow Hill -	46 38 56	72120
Merrington Church Tower	. . .	
Collier Law - -	15 59 59	126825
Wordeslow Hill -	93 45 46	35032
West Boldon Spire -	. . .	
Collier Law - -	87 39 7	7799
Wordeslow Hill -	3 44 15	119548
Pile of Stones on Fatherly Hill - -	. . .	
Collier Law - -	42 53 5	181093
Wordeslow Hill -	96 3 32	123933
Newbiggin Spire -	. . .	
Collier Law - -	34 1 55	153093
Wordeslow Hill -	94 50 34	85988
Seaton Delaval Summer House - -	. . .	
Collier Law from Brandon Down 63150,5 feet.		
Collier Law - -	20 24 17	81505
Brandon Down -	114 58 56	31350
Westerton Folly -	. . .	
Brandon Down from Wordeslow Hill 63478,1 feet.		
Brandon Down -	15 24 58	22627
Wordeslow Hill -	8 12 54	42096
Durham Cathedral -	. . .	
Brandon Down -	81 29 30	162813
Wordeslow Hill -	76 15 15	165771
Pile on a Hill near Stokesley	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Brandon Down -	124 41 44	49445
Wordeslow Hill -	23 55 37	100237
Brusselton Folly -	. . .	
Brandon Down - -	90 48 3	33343
Wordeslow Hill -	27 32 14	72114
Merrington Church Tower	. . .	
Brandon Down - -	23 46 52	27664
Wordeslow Hill -	88 30 26	68581
Easington Church Tower	. . .	
Brandon Down - -	22 43 12	83583
Wordeslow Hill -	112 52 26	35036
West Boldon Spire -	. . .	
Brandon Down - -	29 51 50	105399
Wordeslow Hill -	118 1 0	59449
North Shields Church Tow.	. . .	
Brandon Down - -	40 1 28	69210
Wordeslow Hill -	76 45 6	45727
Sherf Hill Beacon Staff	. . .	
Collier Law from Pontop Pike 56824,6 feet.		
Collier Law - -	131 36 48	64983
Pontop Pike -	25 55 1	111160
Kilhope Law - -	. . .	
Collier Law - -	113 13 26	7800
Pontop Pike -	6 49 25	60328
Pile on Fatherly Hill -	. . .	
Wordeslow Hill from Pontop Pike 72621,9 feet.		
Wordeslow Hill -	1 28 39	30889
Pontop Pike - -	1 5 35	41751
Chester le Street Spire	. . .	
Wordeslow Hill -	102 0 59	38093
Pontop Pike - -	24 49 19	88752
Whitburn Spire -	. . .	
Wordeslow Hill -	76 19 17	123926
Pontop Pike - -	70 12 52	127965
Newbiggin Spire -	. . .	
Wordeslow Hill -	79 10 2	59449
Pontop Pike - -	43 32 21	84150
North Shields Church Tower - -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Wordeslow Hill -	37 54 10	45728
Pontop Pike - -	37 33 10	46090
Sherf Hill Beacon Staff	. . .	
Wordeslow Hill -	95 1 15	41648
Pontop Pike - -	30 9 50	88515
Signal Staff on Marston Hill - -	. . .	
Wordeslow Hill -	93 2 4	41748
Pontop Pike - -	29 7 22	85661
Windmill on Marston Hill	. . .	
Collier Law from Rufflaw 169586,5 feet.		
Collier Law - -	26 41 41	153091
Rufflaw - -	64 29 37	76201
Seaton Delaval Summer House - -	. . .	
Wordeslow Hill from Rufflaw 152413 feet.		
Wordeslow Hill -	29 16 11	62596
Rufflaw - - -	17 22 30	102485
Tynemouth Lighthouse	. . .	
Wordeslow Hill -	29 35 3	60548
Rufflaw - -	16 40 51	104141
Flagstaff on Tynemouth Castle - -	. . .	
Rufflaw from Alnwick Moor 72588,4 feet.		
Rufflaw - -	48 44 21	62537
Alnwick Moor -	56 18 17	56502
Lighthouse on Coquet-Island - -	. . .	
Rufflaw - -	2 36 12	75775
Alnwick Moor -	132 5 10	4638
Earl's Mount Obelisk - -	. . .	
Alnwick Moor -	30 30 26	22957
Rufflaw - -	12 26 41	54080
Beacon Staff on a Hill near Shillbottle -	. . .	
Alnwick Moor -	33 29 3	97555
Rufflaw - - -	99 15 40	54533
Signal Staff near Newbiggin - -	. . .	
Alnwick Moor -	51 34 6	57026
Rufflaw - -	50 15 30	58095
Signal Staff near Hawxley	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Alnwick Moor -	50 9 12	44789
Rufflaw - -	35 0 55	55929
High Tower on Warkworth Castle - -	. . .	
Alnwick Moor -	88 5 18	65107
Rufflaw - -	42 44 26	95879
Double Pile on a Hill south-west of Linhope Cataract - -	. . .	
Alnwick Moor from Blackheddon 87293,3 feet.		
Alnwick Moor -	32 3 18	70903
Blackheddon - -	54 8 25	46432
Flagstaff on Bambrough Castle - -	. . .	
Alnwick Moor -	27 31 51	71687
Blackheddon - -	54 23 53	40753
Signal Staff near Bambrough Castle -	. . .	
Alnwick Moor -	40 4 4	76444
Blackheddon - -	59 40 2	57011
Lighthouse on the West Staples - -	. . .	
Alnwick Moor -	50 26 44	57544
Blackheddon - -	41 13 4	67333
Beadnell Spire -	. . .	
Alnwick Moor -	66 8 45	39445
Blackheddon - -	26 49 29	79944
Embleton Church Tower	. . .	
Alnwick Moor -	75 33 33	44548
Blackheddon - - -	29 31 18	87551
Dunstanbrough Castle	. . .	
Alnwick Moor -	46 53 30	63809
Blackheddon - -	46 50 19	63865
Windmill on Sunderland Point - -	. . .	
Alnwick Moor -	54 9 59	57544
Blackheddon - -	41 1 57	71063
Signal Staff near Beadnell	. . .	
Alnwick Moor -	59 0 0	43908
Blackheddon - -	30 11 41	74832
Windmill near Newton	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Mordington Hill from Blackheddon		68399 feet.
Mordington Hill -	° ′ ″ 20 24 57	103940
Blackheddon -	128 39 56	46436
Flagstaff on Bambrough Castle - -	. . .	
Mordington Hill -	18 48 58	99009
Blackheddon - -	128 24 34	40753
Signal Staff near Bambrough Castle -	. . .	
Mordington Hill -		
Blackheddon - -	25 37 9	110426
Lighthouse on the West Staples - -	123 8 17	57021
	. . .	
Mordington Hill -	21 13 27	122637
Blackheddon - -	135 57 57	63872
Windmill near Sunderland Point - -	. . .	
Mordington Hill -	25 21 57	110832
Blackheddon - -	123 46 7	57117
Flagstaff on the West Staples - -	. . .	
Mordington Hill -	29 37 47	112778
Blackheddon - -	117 59 18	63141
Low Building on one of the Staples - -	. . .	
Mordington Hill -	30 8 3	111679
Blackheddon - -	116 41 25	62752
East Staples Lighthouse	. . .	
Mordington Hill -	21 24 35	79483
Blackheddon - -	100 55 24	29550
Beacon Staff at Old Law	. . .	
Mordington Hill -	23 59 42	77753
Blackheddon - -	94 45 48	31728
Flagstaff on Holy Island Castle - -	. . .	
Mordington Hill -	22 18 23	65096
Blackheddon - -	71 41 30	26022
Windmill on Holy Island	. . .	
Mordington Hill -	4 16 50	63428
Blackheddon - -	42 36 2	6994
Kyloe Church Tower -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Mordington Hill -	7 49 54	60344
Blackheddon - -	43 39 17	11911
Lowick Church Tower -	. . .	
Mordington Hill -	35 23 11	119049
Blackheddon - -	112 34 19	74658
Rock on the West End of the Cheviot -	. . .	
Mordington Hill -	10 12 34	42187
Blackheddon - -	15 32 44	27901
Cheswick Windmill -	. . .	
Mordington Hill -	136 55 32	43723
Blackheddon - -	16 34 23	104686
Warlaw Bank Barrow	. . .	
Mordington Hill -	52 55 56	35458
Blackheddon - -	31 1 59	54881
Norham Castle - -	. . .	
Mordington Hill -	9 50 2	38081
Blackheddon - -	11 53 40	31555
North Scramerston Windmill - -	. . .	
Mordington Hill -	7 26 4	36080
Blackheddon - -	8 8 38	32955
South Scramerston Windmill - -	. . .	
Mordington Hill -	10 2 36	32997
Blackheddon - -	9 6 16	36366
Middle Scramerston Windmill - -	. . .	
Mordington Hill -	83 13 12	97438
Blackheddon - -	59 32 36	112245
Southmost Turret of Hume Castle - -	. . .	
Mordington Hill -	11 20 15	37762
Blackheddon - -	13 22 37	32161
Green's Windmill -	. . .	
Mordington Hill -	130 22 10	48566
Blackheddon - -	20 19 56	106491
Buncle Edge Clump -	. . .	
Mordington Hill -	94 49 47	35647
Blackheddon - -	26 26 58	79748
Blackadder Tower -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Mordington Hill -	80 45 27	32341
Blackheddon - -	26 47 44	70808
Dyket Head Windmill	. . .	
Mordington Hill -	66 24 37	31043
Blackheddon - -	27 45 36	62850
Horndean Windmill -	. . .	
Mordington Hill -	114 44 36	25425
Blackheddon - -	16 17 7	82345
Harelaw Barn -	. . .	
Mordington Hill -	104 17 48	56861
Blackheddon - -	33 45 27	99159
Dunse Spire - -	. . .	
Mordington Hill -	67 4 25	52565
Blackheddon - -	45 17 29	68120
South Gable of Simprin Barn - -	. . .	
Mordington Hill -	60 47 28	38355
Blackheddon - -	33 58 25	59909
Lady Kirk Spire -	. . .	
Mordington Hill -	94 49 35	34449
Blackheddon - -	30 57 21	84015
Whitelaw Windmill -	. . .	
Mordington Hill -	84 17 1	40773
Blackheddon - -	32 14 6	76061
Longridge Windmill -	. . .	
Mordington Hill -	59 41 54	34380
Blackheddon - -	30 10 30	59055
New Lady Kirk Windmill	. . .	
Lumsdane Hill from Blackheddon 113573.5 ft.		
Lumsdane Hill -	19 46 17	156974
Blackheddon - -	122 44 39	63131
Low Building on one of the Staples - -	. . .	
Lumsdane Hill -	20 5 50	155796
Blackheddon - -	121 26 47	62750
East Staples Lighthouse	. . .	
Lumsdane Hill -	27 31 24	153827
Blackheddon - -	107 48 55	74665
Rock on the West End of the Cheviot -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Lumsdane Hill -	62 36 10	24143
Blackheddon - -	11 48 59	104682
Warlaw Bank Barrow	. . .	
Lumsdane Hill -	20 40 42	68799
Blackheddon - -	26 16 35	54877
Norham Castle -	. . .	
Lumsdane Hill -	68 57 16	30637
Blackheddon - -	15 34 36	106482
Buncle Edge Clump -	. . .	
Sayrs Law from Blackheddon 170637.4 feet.		
Sayrs Law - -	9 43 16	93818
Blackheddon -	11 27 24	79755
Blackadder Tower -	. . .	
Sayrs Law - -	14 48 1	140121
Blackheddon -	45 30 27	50136
Berwick upon Tweed Spire	. . .	
Sayrs Law - -	21 54 3	119591
Blackheddon -	36 46 39	74506
Signal Staff on Habchester Hill - -	. . .	
Lumsdane Hill from Mordington Hill 45764.1ft.		
Lumsdane Hill -	27 47 45	68793
Mordington Hill -	115 11 36	35452
Norham Castle -	. . .	
Lumsdane Hill - -	33 42 0	36781
Mordington Hill -	53 23 8	25424
Harelaw Barn -	. . .	
Lumsdane Hill -	88 26 6	44721
Mordington Hill -	45 6 14	63108
Cockburn Law - -	. . .	
Lumsdane Hill - -	24 9 41	37104
Mordington Hill -	51 53 35	19301
Edington Hill Thrashing Machine - -	. . .	
Lumsdane Hill - -	98 39 33	92443
Mordington Hill -	56 51 12	109151
Twinlaw Cairns -	. . .	
Sayrs Law from Mordington Hill 124008.6 ft.		
Sayrs Law - -	34 47 40	26715
Mordington Hill -	8 29 40	103202
Spartleton Hill Staff -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Sayrs Law - -	32 12 16	44941
Mordington Hill -	15 33 57	89255
Pile on Dirrington little Law - -	. . .	
Sayrs Law - -	89 28 16	97234
Mordington Hill -	38 18 3	156876
Highest Point of the Elden Hills - -	. . .	
Sayrs Law - -	42 13 41	181945
Mordington Hill -	95 0 32	122751
Pile on Hedgehope -	. . .	
Sayrs Law from Lumsdane Hill 97803,5 feet.		
Sayrs Law - -	15 10 48	26716
Lumsdane Hill -	5 32 54	72358
Spartleton Hill Staff -	. . .	
Sayrs Law - -	70 38 26	26816
Lumsdane Hill -	15 53 0	92443
Twinlaw Cairns -	. . .	
Sayrs Law - -	17 31 18	119588
Lumsdane Hill -	114 16 22	39495
Signal Staff on Habchester Hill - -	. . .	
Sayrs Law - -	117 50 50	193863
Lumsdane Hill -	42 18 11	255855
West Lomond Top -	. . .	
Sayrs Law - -	85 43 1	131671
Lumsdane Hill -	56 10 44	158048
St. Monance Spire -	. . .	
Sayrs Law - -	81 48 53	132962
Lumsdane Hill -	59 3 56	153433
Pittenweem Spire -	. . .	
Sayrs Law - -	79 37 38	137220
Lumsdane Hill -	61 33 45	153500
West Anstruther Spire -	. . .	
Sayrs Law - -	79 19 40	137868
Lumsdane Hill -	61 55 20	153552
East Anstruther Spire -	. . .	
Sayrs Law - -	78 6 53	141498
Lumsdane Hill -	63 37 27	154554
Kilrenny Spire -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Sayrs Law - -	73 20 9	152048
Lumsdane Hill -	69 35 22	155420
High Spire in Crail -	. . .	
Sayrs Law - -	72 7 6	158449
Lumsdane Hill -	71 56 48	154994
High Building near Crail	. . .	
Sayrs Law - -	66 8 34	125923
Lumsdane Hill -	67 51 11	124336
Lighthouse, Isle of May	. . .	
Sayrs Law - -	72 34 16	84612
Lumsdane Hill -	48 5 20	108477
Sharp Point on the Summit of the Bas Rock -	. . .	
Sayrs Law - -	83 36 54	74251
Lumsdane Hill -	39 29 25	116033
Signal Staff on North Berwick Law - -	. . .	
Sayrs Law - -	5 7 16	95290
Lumsdane Hill -	71 12 44	8984
Signal Staff on Dulau	. . .	
Sayrs Law from Wisp Hill 214463,4 feet.		
Sayrs Law - -	58 11 4	181946
Wisp Hill - -	52 31 17	194825
Hedgehope Pile -	. . .	
Sayrs Law - -	9 7 38	109279
Wisp Hill - -	9 14 20	107969
Building on the Hill near Stow - -	. . .	
Sayrs Law - -	73 17 58	18903
Wisp Hill - -	4 57 2	209814
Soutra Hill Pile -	. . .	
Sayrs Law - -	8 49 1	97243
Wisp Hill - -	10 56 27	120411
Highest Point of the Elden Hills - -	. . .	
Cross Fell from Wisp Hill 235018,6 feet.		
Cross Fell - -	41 32 45	292773
Wisp Hill - -	85 19 8	194823
Hedgehope Pile -	. . .	

SECTION FOURTH.

INTERIOR SURVEY OF THE WESTERN COUNTIES.

ART. 1. *First Class of Secondary Triangles, proceeding from the Side joining the Stations Bagborough and Moorlynch, in Somersetshire, towards the South-east of Devon.* *Plate* II.

Distance from Bagborough to Moorlynch 77243,4 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.	Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″			° ′ ″	
Bagborough - -	37 11 16	77464	Bagborough - -	56 11 28	26022
Moorlynch - -	71 38 55	49330	Brompton Ralph -	36 58 38	18837
Brent Knoll - -	71 9 49		Crowcombe Hill -	86 49 54	
Bagborough - -	34 7 50	43730	Bagborough - -	35 33 21	13131
Brent Knoll - -	30 44 5	48009	Crowcombe -	43 7 5	11171
Bridgewater Spire -	115 8 5		Danesbury - -	101 19 34	
Brent Knoll - -	16 12 48	21553	Bagborough - -	66 29 40	62320
Bridgewater Spire -	12 25 33	27968	Brompton Ralph - -	83 35 46	57507
Huntspill Steeple -	151 21 39		Sampford - -	29 54 34	
Bagborough - -	25 30 33	31702	Bagborough - -	21 12 32	92417
Bridgewater Spire -	42 5 6	20370	Brampton Ralph -	148 39 12	64269
Cannington Station -	112 24 21		Dunkery Beacon -	10 8 16	
Cannington - -	74 43 25	25258	Bagborough - -	31 1 0	70271
Bridgewater Spire -	60 37 28	27960	Dunkery Beacon -	48 21 36	48452
Huntspill Steeple -	44 39 7		Haddon Beacon - -	100 37 24	
Bagborough - -	75 51 51	65323	Bagborough - -	9 48 19	70268
Bridgewater Spire -	66 19 22	69167	Brompton Ralph -	162 30 29	39813
Staple Hill - - -	37 48 47		Haddon Beacon -	7 41 12	
Staple Hill - -	89 24 25	10461	Haddon Beacon - -	29 2 44	24471
Bridgewater Spire -	8 36 49	69846	Brompton Ralph -	32 49 23	21919
Castlineroach - -	81 58 46		Heydon Hill - -	118 7 53	
Bagborough - -	6 37 56	72134	Bagborough - -	56 41 16	62321
Staple Hill - -	127 13 15	10462	Haddon Beacon -	55 18 54	63336
Castlineroach -	46 8 49		Sampford Hill - -	67 59 50	
Bagborough - -	104 8 0	31270	Haddon Beacon -	62 59 59	63338
Staple Hill - -	22 34 8	79009	Brompton Ralph -	78 54 49	57507
Brompton Ralph Hill	53 17 52		Sampford - -	38 5 12	

Names of Stations and intersected Objects.	Angles for Computation	Distances in Feet.
	° ′ ″	
Haddon Beacon -	48 51 46	57220
Sampford - -	59 11 46	50173
Newts Down	71 56 34	
Bagborough - -	33 21 41	100895
Haddon Beacon - -	104 9 41	57223
Newts Down - -	42 28 38	
Haddon Beacon -	3 8 21	76622
Newts Down - -	167 43 32	19737
Christcross - -	9 8 7	
Newts Down - -	120 20 0	50165
Christcross - -	43 50 59	62499
Sampford - -	15 49 1	
Newts Down - -	89 27 15	41074
Christcross - -	64 46 45	45400
Kentisbeare - -	25 46 0	
Newts Down - -	24 15 51	64448
Christcross - -	145 49 56	47157
Whitestone - -	9 54 13	
Staple Hill - -	78 7 42	26558
Castlineroach -	79 6 49	26466
Yartcombe - -	22 45 29	
Staple Hill - -	23 37 32	46747
Yartcombe - -	130 58 27	24815
Dumpdon -	25 24 1	
Bagborough - -	20 10 4	102270
Staple Hill - -	131 1 27	46737
Dumpdon - -	28 48 29	
Dumpdon - -	52 50 18	25508
Yartcombe -	65 10 25	22398
Harner Hill - -	61 59 17	
Dumpdon - -	9 51 6	16255
Harner Hill - -	16 19 48	9892
Stockland - -	153 49 6	
Dumpdon - -	5 50 47	24599
Harner Hill - -	67 30 38	2712
Beacon Hill - -	106 38 35	
Dumpdon - -	150 33 12	10528
Harner Hill - -	8 29 21	35060
Combe-Rawleigh - -	20 57 27	

Names of Stations and intersected Objects.	Angles for Computation	Distances in Feet.
	° ′ ″	
Brompton Ralph - -	8 33 45	81251
Sampford - -	152 5 23	25843
Kentisbeare - -	19 20 52	
Sampford - -	24 28 6	24321
Kentisbeare -	69 47 35	10734
Gaddon Hill - -	85 44 19	
Sampford - -	23 25 31	5911
Gaddon Hill -	7 5 19	19043
Culmstock - -	149 29 10	
Culmstock - -	31 52 41	19933
Gaddon Hill - -	78 38 8	10737
Kentisbeare - -	69 29 11	
Sampford - -	2 39 43	32337
Kentisbeare - -	166 54 32	6631
Wherry Farm - -	10 25 45	
Sampford - - -	2 10 25	34037
Wherry Farm -	142 23 13	2115
Upcot Pen - - -	35 26 23	
Sampford - -	20 25 37	47920
Upcot Pen - -	123 1 16	19947
Woolford Lodge Staff -	36 33 7	
Upcot Pen - -	28 3 38	12709
Woolford Lodge -	34 23 59	10582
Hembury Fort -	117 32 23	
Hembury Fort - -	66 44 50	21536
Woolford Lodge - -	83 59 55	19895
North Ottery Moor -	29 15 15	
Hembury Fort -	17 8 16	38839
North Ottery Moor -	143 41 52	19331
South Ottery Moor -	19 9 52	
North Ottery Moor -	53 21 46	23850
South Ottery Moor	75 5 0	19806
West Ottery Moor -	51 33 14	
Whitestone - -	113 59 28	49762
Christcross - - -	34 0 15	81291
Obelisk on Haldon -	32 0 17	
Whitestone -	11 15 12	31693
Haldon Old Station -	150 25 30	19675
Haldon Obelisk -	18 19 18	

Names of Stations and intersected Objects.	Angles for Computation	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Computation	Distances in Feet.
	° ′ ″			° ′ ″	
Whitestone - -	10 18 56	39252	Whitestone - -	37 48 0	22294
Haldon Old Station -	134 34 18	9867	Christcross - -	24 49 12	32551
Haldon New Station -	35 6 46		Rock Barton -	117 22 48	
Haldon Old Station -	39 35 40	34430	Haldon New Station -	22 7 48	10540
Haldon New Station -	127 12 46	27554	Little Haldon -	12 34 57	18227
Little Haldon - -	13 11 34		Haldon Obelisk - -	145 17 15	
Haldon New Station	28 47 14	29532	Haldon Obelisk - -	18 58 50	18854
Whitestone - -	46 46 1	19519	Little Haldon - -	86 16 40	6145
Exeter Cathedral - -	104 26 45		Holcomb Down - -	74 44 30	
Haldon Old Station -	96 43 8	26700			
Haldon New Station	63 53 58	29528			
Exeter Cathedral - -	19 22 54				

ART. II. *First Class of Secondary Triangles for the Survey of the North of Devon. Plate* III.

The Sides of the Great Triangles used as Base Lines in calculating the Sides of the Secondary Triangles, are the following:

Distance from Black Down to - { St. Stephen's Down 62508 feet.
Kit Hill - - 53128
Butterton Hill - - 89146

Cawsand Beacon to { Rippin Tor - 64020
Great Haldon - 84116

Rippin Tor to - Great Haldon - 55628

Dunkery Beacon from Haddon Beacon - 48439

Black Down -	66 49 56	48290	Black Down -	30 56 8	55913
St. Stephen's Down -	45 34 40	62162	Butterton Hill -	94 1 1	108495
Bradbury Castle -	67 35 24		Cawsand Beacon -	55 2 51	
Bradbury Castle -	19 59 11	94758	Black Down -	59 40 9	55903
St. Stephen's Down -	129 42 2	42095	Bradbury Castle -	67 25 34	52255
Warbstow Beacon -	30 18 47		Cawsand Beacon -	52 54 17	
Kit Hill - -	61 47 48	100969	Cawsand Beacon -	41 23 38	84116
Black Down -	86 31 15	89146	Rippin Tor -	89 3 17	55628
Butterton Hill -	31 40 57		Great Haldon -	49 33 5	
Cawsand Beacon -	31 0 20	108495	Rippin Tor - -	4 33 10	54787
Rippin Tor -	117 24 8	62951	Great Haldon -	76 52 4	4466
Butterton Hill -	31 35 32		Palk's Tower -	98 34 1	
Cawsand Beacon -	86 3 10	55912	Cawsand Beacon -	88 10 13	82218
Rippin Tor -	42 49 51	82048	Bradbury Castle -	58 52 13	96000
Black Down - -	51 6 59		Beacon Moor -	32 57 34	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Cawsand Beacon -	90° 3′ 32″	80171
Beacon Moor -	44 14 57	114896
Palk's Tower -	45 41 31	
Cawsand Beacon -	63 52 50	68487
Great Haldon -	48 43 50	81815
West Morchard -	67 23 20	
Great Haldon -	38 57 40	78537
Cawsand Beacon -	64 58 50	54497
Mary Down -	76 3 30	
Bradbury Castle -	41 24 36	70244
Beacon Moor -	47 0 22	63522
Spreyton Steeple -	91 35 2	
Cawsand Beacon -	42 18 15	50492
Bradbury Castle -	66 18 30	37112
Hatherleigh -	71 23 15	
Bradbury Castle -	17 27 35	70256
Cawsand Beacon -	125 0 30	25735
Spreyton Steeple -	37 31 55	
Bradbury Castle - -	54 21 47	63475
Cawsand Beacon -	73 30 35	53800
Winkley - -	52 7 38	
Bradbury Castle -	4 30 26	63476
Beacon Moor -	8 40 5	33098
Winkley - - -	166 49 29	
Bradbury Castle -	36 40 59	86419
Beacon Moor - -	62 39 20	58120
Belleview - -	80 39 41	
Bradbury Castle -	18 32 27	65884
Belleview - -	41 10 20	31823
Langtree - -	120 17 13	
Bradbury Castle -	34 33 51	29297
Hatherleigh - -	51 59 53	21093
High Hampton Steeple	93 26 16	
Bradbury Castle -	69 29 15	40845
St. Stephens -	38 38 30	61262
Beacon Moor Holsworthy	71 52 15	
Warbstow Beacon -	54 46 58	74975
St. Stephen's - -	91 4 0	61262
Beacon Moor, Holsworthy	34 9 2	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
St. Stephens - -	66° 28′ 33″	64720
Bradbury Castle .	58 31 27	69579
Pancras Week - -	55 0 0	
St. Stephen's - -	63 13 21	64738
Warbstow Beacon -	77 23 23	59224
Pancras Week - -	39 23 16	
St. Stephen's - -	72 36 33	56995
Bradbury Castle -	50 19 3	70673
Bridgerule - - -	57 4 24	
St. Stephen's -	57 5 19	57000
Warbstow Beacon -	76 54 41	49128
Bridgerule - - -	46 0 0	
St. Stephen's - -	54 53 59	85295
Warbstow Beacon -	95 41 14	70129
Kilkhampton - -	29 24 47	
Warbstow Beacon -	40 54 16	70129
Beacon Moor, H. -	64 25 50	50906
Kilkhampton - -	74 39 54	
Warbstow Beacon -	62 41 34	64387
St. Stephen's -	77 37 13	58573
Holsworthy Steeple -	39 41 13	
St. Stephen's - -	13 26 28	58573
Beacon Moor, H. -	72 29 53	14276
Holsworthy - -	94 3 39	
Warbstow Beacon -	67 14 8	54822
St. Stephen's -	67 33 18	54695
Pyeworthy - - -	45 12 34	
St. Stephen's - -	23 30 6	54695
Beacon Moor - -	63 1 9	24475
Pyworthy - - -	93 28 45	
St. Stephen's -	62 8 36	54682
Bradbury Castle - -	52 51 51	60644
Pyworthy - -	64 59 33	
St. Stephen's - -	14 23 38	64738
Holsworthy - - -	104 24 10	16615
Pancras Week - -	61 12 12	
Pancras Week - -	104 13 40	33015
Holsworthy - -	52 18 20	40444
Week St. Mary -	23 28 0	

Names of Stations and intersected Objects.	Observed Angles.	Distances in feet.	Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″			° ′ ″	
Pancras Week - -	63 11 50	23014	Beacon Moor - -	81 56 51	58112
Week St. Mary -	42 13 10	30568	Span Head - -	43 19 56	83849
Stamford - -	74 35 0		Belleview - -	54 43 13	
Bradbury Castle -	70 53 58	69577	Span Head - -	29 45 10	76552
Belleview - -	45 55 40	91511	North Molton Ridge -	140 4 36	59195
Pancras Week - -	63 10 22		Witheridge Spire - -	10 10 14	
Dunkery Beacon - -	79 3 5	47309	Beacon Moor - -	31 50 26	57328
Haddon Beacon -	49 39 18	60943	Cotten Hill - -	75 26 37	31674
North Molton Ridge	51 17 37		Belleview - - -	72 42 57	
Dunkery Beacon -	22 31 57	54421	North Molton Ridge -	36 12 55	65376
North Molton Ridge	98 4 14	21063	South Molton Steeple -	120 5 51	44644
Span Head - -	59 23 49		Cotten Hill - -	23 41 14	
Span Head - -	22 54 11	79800	South Molton - -	28 0 22	63153
North Molton Ridge	149 22 5	60951	Cotton Hill - -	110 32 38	31668
Haddon Beacon - -	7 43 44		Belleview - -	41 27 0	
North Molton Ridge	87 10 7	30357	Beacon Moor - -	121 4 34	114917
Span Head - -	57 10 6	36083	North Molton Ridge -	39 22 0	155176
South Molton - -	35 39 47		Palk's Tower - -	19 33 26	
Span Head - -	57 58 15	69131	Beacon Moor - -	83 49 38	114918
North Molton Ridge	104 54 21	60649	Haddon Beacon -	53 29 29	142146
Beacon Moor Chumleigh	17 7 24		Palk's Tower - -	42 40 53	
North Molton Ridge	105 43 34	60640	North Molton Ridge -	43 58 15	107599
Haddon Beacon -	37 1 44	96925	Beacon Moor - -	102 27 6	76505
Beacon Moor Ch. -	37 14 42		Christcross - -	33 34 39	
Span Head - -	143 30 36	24311	North Molton Ridge -	29 53 9	66617
Beacon Moor - -	9 15 35	89847	Beacon Moor - -	85 1 25	33319
Paracombe - -	27 13 49		Thelbridge Steeple -	65 5 26	
North Molton Ridge	11 31 8	44584	North Molton Ridge -	26 9 43	81924
Span Head - -	158 31 6	24312	Beacon Moor - -	109 37 40	38349
Paracombe - -	9 57 46		West Morchard -	44 12 37	
North Molton Ridge	62 27 50	65374	North Molton Ridge -	41 32 27	73647
Paracombe - -	76 5 10	59721	Beacon Moor -	83 32 43	49150
Cotten Hill - -	41 27 0		Puddington - -	54 54 50	
Span Head - -	111 37 33	54607	Cotten Hill - -	93 20 0	32928
North Molton Ridge -	50 56 42	65371	Paracombe - - -	28 4 20	69853
Cotten Hill - -	17 25 45		Heanton Steeple -	58 35 40	
Beacon Moor - -	50 6 41	57329	Cotton Hill - -	90 58 0	32949
Span Head - -	53 39 18	54613	Belleview - - -	45 38 0	46084
Cotten Hill - -	76 14 1		Heanton - - -	43 24 0	

Names of Stations and intersected Objects.	Angles for Computation	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Computation	Distances in Feet.
	° ′ ″			° ′ ″	
Heanton - -	34 57 0	10405	Span Head - -	79 16 40	96424
Cotton Hill - -	13 43 40	25117	Parracombe - -	86 9 7	94955
Fremington Steeple -	131 19 20		Northam - -	14 34 13	
Beacon Moor - -	126 45 10	38346	Belleview -	100 15 30	34971
Span Head - -	18 27 10	97067	Span Head -	20 54 30	96426
West Morchard - -	34 47 40		Northam - -	58 50 0	
Fremington - -	93 2 0	28430	Belleview - -	44 35 0	44964
Cotton Hill - -	46 50 30	38920	Northam	84 40 0	31700
Swinham Down - -	40 7 30		Parkham - -	50 45 0	
Cotton Hill - -	34 30 36	60972	Parkham - -	44 39 0	28201
Parracombe - -	74 39 16	35821	Belleview - -	38 31 0	31825
Hangman Hill - -	70 50 8		Laugtree - -	96 50 0	
Hangman Hill - -	34 42 40	38566	Cotton Hill - -	40 58 0	27052
Parracombe - -	79 22 50	22344	Belleview - -	57 38 0	20998
Bratton Down -	65 54 30		Harwood - -	81 24 0	
Bratton Down -	24 4 0	35831	Belleview - -	69 17 0	44970
Hangman Hill - -	68 11 0	15739	Harwood - - -	83 6 0	42370
Berry Down - -	87 45 0		Parkham - -	27 37 0	
Hangman Hill - -	13 33 0	25851			
Berry Down - -	147 11 0	11176			
Hewish Down -	19 16 0				

ART. III. *First Class of Secondary Triangles for the Survey of Dartmoor Forest, and the South of Devon. Plate* III.

The Sides of the Great Triangles used as Base Lines in this Survey are the following: viz.

Little Haldon to	Rippin Tor - -	55,988 feet.
	Furland - -	72776
Rippin Tor to	Butterton Hill -	62951
	Cawsand Beacon - -	63799
Bolt Head to	Butterton Hill -	72479
Rippin Tor to	Sir R. Palk's Tower, Haldon	54788
	Chudleigh Steeple -	41471

Rippin Tor Old Station	106	45	0	233	Rippin Tor Old Station	66	15	0	232
Little Haldon -	0	13	40	56055	Palk's Tower -	0	13	20	54695
Rippin Tor New Station	73	1	20		Rippin Tor New Station	113	31	40	
Rippin Tor New Station	44	8	20	32574	Rippin Tor New Station	84	44	10	32570
Denbury - -	101	5	40	39781	Palk's Tower -	32	5	50	61037
Little Haldon - -	34	46	0		Denbury - -	63	10	0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	′ ° ″	
Rippon Tor Old Station	87 54 0	233
Chudleigh Steeple -	0 19 18	41463
Rippon Tor New Station	91 46 42	
Rippon Tor New Station	63 0 10	32574
Chudleigh Steeple -	47 24 50	39421
Denbury - -	69 35 0	
Furland - -	71 56 33	68727
Little Haldon -	51 46 15	83180
Brent Ruins - -	56 17 12	
Rippon Tor New Station	106 15 1	47739
Little Haldon - -	33 26 8	83181
Brent Ruins - -	40 18 51	
Rippon Tor - -	62 1 30	32567
Brent Ruins - -	41 32 30	43371
Denbury - - -	76 26 0	
Rippon Tor Old Station	135 34 0	232
Butterton Hill - -	0 8 50	63117
Rippon Tor New Station	44 17 10	
Rippon Tor New Station	32 47 36	71556
Butterton Hill -	85 6 14	38681
Horner Down - -	62 6 10	
Horner Down - -	24 26 40	50847
Rippon Tor - -	40 14 15	32573
Denbury - -	115 19 5	
Horner Down - -	142 23 25	8438
Butterton Hill -	6 28 35	45656
Morleigh Camp -	31 8 0	
Rippon Tor - -	24 30 0	52757
Denbury - -	125 12 0	26774
Totness Steeple -	30 18 0	
Totness - -	64 40 20	19141
Denbury - -	42 57 0	25391
Marldon Beacon -	72 22 40	
Totness - - -	26 53 20	17172
Marldon Beacon -	63 46 30	8657
Willman Hill - -	89 20 10	
Horner Down - -	80 54 30	31270
Butterton Hill - -	42 27 50	45735
Church Stowe Steeple	56 37 40	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Morleigh Camp -	72 10 0	28227
Butterton Hill -	35 58 50	45737
Church Stowe Steeple	71 51 10	
Horner Down - -	104 50 30	25616
Rippon Tor - -	17 40 20	81566
Higher East Close -	57 29 10	
Morleigh Camp -	111 28 30	25610
Horner Down - -	50 40 10	21287
Higher East Close -	17 51 20	
Horner Down - -	60 46 50	39520
Butterton Hill - -	60 39 30	39566
Bigbury Spire - -	58 33 40	
Church Stowe -	31 0 0	27465
Marlborough - -	103 46 0	14564
Portlemouth -	45 14 0	
Church Stowe -	23 7 50	16380
Portlemouth -	27 25 0	13974
Charleton Steeple -	129 27 10	
Church Stowe -	66 25 50	14702
Portlemouth - -	31 58 20	25449
Buckland, Tout Saints	81 35 50	
Church Stowe -	29 39 10	8729
Portlemouth -	12 15 20	20345
Kingsbridge Spire -	138 5 30	
Portlemouth -	40 15 0	18899
Church Stowe -	48 6 50	17867
Marlborough Station -	96 38 10	
Marlborough Station -	65 22 20	26664
Portlemouth - -	72 11 20	25459
Buckland, Tout Saints	42 26 20	
Marlborough Station -	73 5 50	13837
Portlemouth -	41 40 10	19914
West Allington Steeple	65 14 0	
West Allington -	104 54 50	9449
Marlborough -	29 18 10	18657
Charleton Steeple -	45 47 0	
Portlemouth - -	90 33 10	11957
Church Stowe -	23 26 10	30063
South Pool Station -	66 0 40	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
	° ′ ″	
Portlemouth - -	10 57 10	11159
South Pool Station -	64 42 50	2345
South Pool Steeple -	104 20 0	
South Pool Station -	69 58 20	3089
Portlemouth - -	14 54 40	11279
Chivelstone Station -	95 7 0	
Chivelstone Station -	12 0 10	13814
Portlemouth - -	127 51 0	3638
Salcombe Chapel -	40 8 50	
Portlemouth - -	93 14 30	20342
Chivelstone Station -	58 32 0	23811
Kingsbridge Spire -	28 13 20	
Wallaton Cross -	54 32 50	9973
Morleigh - -	56 0 50	9798
Black-Auton Steeple	69 26 20	
Black Down -	36 4 50	12182
Church Stowe - -	34 23 50	12699
Woodleigh Steeple -	109 31 20	
Church Stowe - -	23 38 0	9403
Woodleigh - -	42 42 0	5558
Loddeswell Steeple -	113 40 0	
Marlborough Station -	67 43 20	13001
Beacon Hill - -	69 21 30	17667
Church Stowe Steeple -	42 55 10	
Marlborough Station -	4 40 20	10423
Beacon Hill - -	17 59 50	2748
Thurlestone Steeple -	157 19 50	
Marlborough Station -	36 24 10	1518
Beacon Hill - -	4 22 30	11814
South Huish -	139 13 20	
Butterton Hill - -	8 9 24	17629
Holland Hill - -	72 46 50	2619
Beacon Park Station -	99 3 46	
Holland Hill - -	124 47 0	20408
Beacon Park - -	49 36 30	22006
Cornwood Steeple -	5 36 30	
Holland Hill - -	20 20 50	3355
Beacon Park - -	114 8 20	1280
Ermington Steeple -	45 20 50	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Butterton Hill - -	110 53 40	23356
East Down Beacon -	59 22 0	25359
Modbury Spire - -	9 44 20	
Holland Hill - -	102 0 0	11314
Butterton Hill - -	28 16 14	23365
Modbury Spire - -	49 43 46	
Butterton Hill -	74 19 0	12020
East Beacon - -	83 23 0	11650
Ugborough Spire -	22 18 0	
Holland Hill - -	39 41 0	17037
Butterton Hill -	64 49 24	12021
Ugborough Spire -	75 29 36	
Butterton Hill -	41 50 20	19635
East Beacon - -	127 27 50	16501
North Huish -	10 41 50	
Morleigh - -	54 58 20	39190
Butterton Hill -	54 10 50	39577
Bigbury - -	70 50 50	
Morleigh - -	89 38 30	45107
Butterton Hill - -	44 49 50	63979
Marlboro' - -	45 31 40	
Horner Down -	91 31 30	49978
Butterton Hill -	51 18 40	64006
Marlboro' -	37 9 50	
Butterton Hill -	16 27 50	36175
Bigbury - -	64 34 20	11352
Kingston Steeple -	98 57 50	
Morleigh - -	108 18 20	44626
Butterton Hill -	35 22 30	73183
Portlemouth - -	36 19 10	
Butterton Hill -	35 15 30	73175
Kingston Steeple -	119 10 0	48374
Portlemouth - -	25 34 30	
Butterton Hill -	16 1 40	41189
Bigbury - -	90 6 30	11372
Station above Kingston	73 51 50	
Station above Kingston	121 14 10	32074
Butterton Hill -	25 22 30	63996
Marlboro' - -	33 23 20	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in feet.
	° ′ ″	
Station above Kingston	114 18 40	45858
Butterton Hill -	34 49 40	73176
Portlemouth -	30 51 40	
Bolt Head - -	19 26 20	82246
Butterton Hill -	100 30 40	27839
Hemerdon Ball -	60 3 0	
Hemerdon Ball -	145 11 0	13545
Butterton Hill -	11 13 40	39720
Boringdon - -	23 35 20	
Butterton Hill -	31 28 30	52990
Boringdon - -	101 11 30	28205
Gonnor Down -	47 20 0	
Butterton Hill -	50 23 50	52994
Bigbury - -	81 56 10	41239
Gonnor Down -	47 40 0	
Boringdon - -	67 56 30	22764
Butterton Hill -	34 5 30	37639
Station South of Yealmton	77 58 0	
Boringdon - -	117 0 30	20806
Hemerdon Ball -	38 52 30	29536
Newton Down -	24 7 0	
Butterton Hill -	44 35 30	25447
Hemerdon Ball -	61 27 24	20337
Station above Pen Beacon	73 57 6	
Hemerdon Ball -	153 22 30	13528
Station above Pen Beacon	10 35 20	32992
Boringdon - -	16 2 10	
Boringdon - -	133 5 10	20808
Station above Pen Beacon	17 50 40	49592
Newton Down -	29 4 10	
Boringdon - -	25 30 30	22754
Newton Down - -	88 25 0	9802
Station South of Yealmton	66 4 30	
Boringdon - -	7 45 0	28201
Gonnor Down - -	20 18 0	8087
Newton Down -	151 57 0	
Gonnor Down -	103 38 0	4733
Newton Down -	26 33 30	10289
West Down - -	49 48 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Butterton Hill -	94 27 10	18219
Horner Down - -	24 22 20	44017
Holland Hill - -	61 10 30	
Butterton Hill -	59 19 8	18226
Hemerdon Ball -	40 12 52	24277
Holland Hill - -	80 28 0	
Butterton Hill -	0 8 50	63117
Rippon Tor Old Station	135 34 0	232
Rippon Tor New Station	44 17 10	
East Beacon - -	136 46 0	4599
Butterton Hill -	40 22 20	59687
Rippon Tor New Station	2 51 40	
Station above Pen Beacon	82 25 0	27834
Hemerdon Ball -	58 52 10	32232
East Beacon - -	38 42 50	
Butterton Hill -	161 29 50	4591
Hemerdon Ball -	2 35 30	32226
East Beacon - -	15 54 40	
Chudleigh - -	15 12 20	34229
Rippon Tor - -	46 47 40	12317
East Beacon - -	118 0 0	
Rippon Tor - -	91 37 0	21721
Palk's Tower - -	21 26 0	59417
Hamilton Down -	66 57 0	
Rippon Tor -	66 34 0	21726
East Beacon - -	79 33 0	20270
Hamilton Down -	33 53 0	
Cawsand Beacon -	0 3 57	63799
Rippon Tor Old Station	18 20 33	233
Rippon Tor New Station	161 35 30	
Rippon Tor New Station	0 34 40	63615
Cawsand Beacon -	73 43 30	668
Cawsand Beacon Barrow	105 41 50	
Rippon Tor New Station	92 7 50	35606
Cawsand Beacon Barrow	28 43 10	74048
Ryder's Hill - -	59 9 0	
Rippon Tor New Station	29 33 30	54021
Cawsand Beacon Barrow	58 2 30	31409
Cut Hill -	92 24 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Rippon Tor New Station	62 38 30	35574
Cut Hill - -	39 59 10	49167
Ryder's Hill - -	77 22 20	
Rippon Tor - -	32 15 50	55202
Ryder's Hill -	110 35 40	31480
Hessary Tor - -	37 8 30	
Rippon Tor - -	30 23 30	54048
Hessary Tor - -	72 34 30	28658
Cut Hill -	77 2 0	
Ryder's Hill - -	33 17 30	49175
Hessary Tor - -	109 37 30	28657
Cut Hill - -	37 5 0	
Cut Hill - -	36 29 30	25005
Cawsand Beacon Barrow	52 45 10	18681
Tes Tor - -	90 45 20	
Tes Tor - -	1 11 10	19220
Cawsand Beacon Barrow	143 21 10	666
Cawsand Beacon -	35 27 40	
Cawsand Beacon -	43 16 0	15442
Tes Tor - -	53 1 40	13253
Oakhampton Park -	83 42 20	
Cawsand Beacon - -	102 27 0	19979
Tes Tor - -	39 40 0	30564
Castor Rock -	37 53 0	
Kit Hill Old Station -	38 3 20	181
Brent Tor - -	0 8 52	43279
Kit Hill New Station -	141 47 48	
Black Down -	0 7 46	53004
Kit Hill Old Station -	43 58 4	180
Kit Hill New Station -	135 54 10	
Black Down - -	81 28 0	18577
Kit Hill New Station	20 5 0	53500
Cocks Tor - -	78 27 0	
St. Stephen's Down -	5 37 20	53167
Black Down - -	28 29 29	10919
Brent Tor - -	145 53 11	

Names of Stations and intersected objects.	Angles for Calculation	Distances in Feet.
	° ′ ″	
Black Down - -	105 51 30	18584
Brent Tor - -	48 10 30	23989
Cocks Tor -	25 58 0	
Kit Hill New Station -	26 4 0	53497
Brent Tor - -	101 29 0	23987
Cocks Tor - -	52 27 0	
Cut Hill -	33 1 30	30882
Hessary Tor -	80 40 20	17056
Cocks Tor - -	66 18 10	
Ryder's Hill - -	27 34 0	33941
Hessary Tor - -	84 56 0	15768
Leather Tor - -	67 30 0	
Hessary Tor -	84 41 30	15778
Cocks Tor - -	45 12 30	22137
Leather Tor - -	50 6 0	
Cocks Tor - -	140 58 0	18577
Hessary Tor - -	20 23 0	33589
Black Down - -	18 39 0	
Black Down - -	53 27 20	34732
Cocks Tor - -	94 18 20	27983
Morwell Down -	32 14 20	
Black Down - -	71 58 10	34734
Hessary Tor -	55 20 10	40155
Morwell Down -	52 41 40	
Cocks Tor - -	48 28 0	60811
Kit Hill - -	73 51 10	47391
St. Budeaux - -	57 40 50	
Cocks Tor - -	95 26 0	22150
Kit Hill - -	21 38 0	59811
Leather Tor -	62 56 0	
Kit Hill - -	52 7 0	47394
Leather Tor - -	50 37 0	48397
St. Budeaux - -	77 16 0	

ART. IV. *Second Class of Triangles for the interior Survey of Part of Somersetshire, of Devonshire, and Part of Cornwall. Plate* III.

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Huntspill Steeple -	14 4 0	30206
Brent Knoll - -	136 32 0	10672
Lympsham Steeple -	29 24 0	
Huntspill Steeple -	42 14 0	23214
Brent Knoll - -	74 22 0	16203
Berrow Steeple -	63 24 0	
Huntspill Steeple -	121 43 0	23198
Cannington -	27 47 0	42336
Berrow Steeple - -	30 30 0	
Huntspill Steeple -	33 58 0	12917
Brent Knoll - -	33 39 0	13024
Burnham Steeple -	112 23 0	
Huntspill Steeple -	129 59 0	12918
Cannington - -	16 26 0	34989
Burnham Steeple -	33 35 0	
Huntspill Steeple -	39 26 0	26110
Brent Knoll - -	85 13 0	16643
Mark Steeple - -	55 21 0	
Huntspill Steeple -	156 36 0	26125
Cannington -	11 54 0	50317
Mark Steeple -	11 30 0	
Huntspill Steeple -	154 22 0	9350
Brent Knoll - -	7 41 0	30255
Pawlet Steeple -	17 57 0	
Huntspill Steeple -	41 40 0	9350
Cannington - -	18 47 0	19303
Pawlet Steeple -	119 33 0	
Huntspill Steeple -	72 3 0	13354
Cannington - -	31 0 0	24067
Puriton Steeple -	76 57 0	
Huntspill Steeple -	124 0 0	13342
Brent Knoll -	20 52 0	31052
Puriton Steeple -	35 8 0	
Huntspill Steeple -	122 29 0	16405
Brent Knoll -	24 30 0	33370
Puriton Mill -	33 1 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Huntspill Steeple -	73 34 0	16414
Cannington - -	37 22 0	25939
Puriton Mill - -	69 4 0	
Huntspill Steeple -	98 7 0	18938
Brent Knoll - -	37 44 0	30636
Woolavington Steeple -	44 9 0	
Huntspill Steeple -	97 57 0	18939
Cannington - -	33 56 0	33601
Woolavington Steeple	48 7 0	
Huntspill Steeple -	10 16 0	45274
Cannington - -	157 18 0	20910
Over Stowey - -	12 26 0	
Huntspill Steeple -	12 11 0	40231
Cannington -	148 53 0	16429
Nether Stowey -	18 56 0	
Huntspill Steeple -	14 0 0	19904
Cannington -	39 0 0	7651
Chimney on the north side of Mr. Evered's House	127 0 0	
Huntspill Steeple -	149 58 0	19892
Brent Knoll - -	14 24 0	40034
Chimney on the north side of Mr. Evered's House	15 38 0	
Quantock - - -	29 39 25	28469
Cannington - -	63 41 33	15714
Stoke Courcy Steeple -	86 39 2	
Quantock - -	33 5 1	28469
Danesbury - -	124 36 9	18880
Stoke Courcy Steeple -	22 18 50	
Huntspill Steeple - -	42 46 0	41126
Cannington - - -	100 1 0	28357
North Petherton Steeple	37 13 0	
Cannington -	31 8 0	39262
North Petherton Steeple	104 30 0	20968
Weston in Zoyland Steeple	44 22 0	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet
	° ′ ″	
Cannington - -	43 2 0	32432
North Petherton Steeple	78 8 0	22616
Chedzoy Steeple - -	58 50 0	
North Petherton Steeple	26 22 0	22602
Weston in Zoyland Steeple	85 55 0	10064
Chedzoy Steeple - -	67 43 0	
North Petherton Steeple	35 59 0	24008
Weston in Zoyland Steeple	83 46 0	14190
Burrow Mount Chapel	60 15 0	
Cannington - - -	185 3 0	49306
North Petherton Steeple	140 29 0	24009
Burrow Mount Chapel	21 28 0	
North Petherton Steeple	60 24 0	19473
Weston in Zoyland Steeple	56 10 0	20384
East Ling Steeple -	63 26 0	
North Petherton Steeple	24 25 0	19475
Burrow Mount Chapel	52 4 0	10207
East Ling Steeple - -	103 31 0	
Cannington - -	37 34 0	17383
North Petherton Steeple	36 1 0	18024
Enmore Steeple - -	106 25 0	
North Petherton Steeple	140 31 0	17983
Weston in Zoyland Steeple	18 10 0	36675
Enmore Steeple - -	21 19 0	
Cannington - -	137 35 0	17396
Huntspill Steeple - -	17 7 0	39868
Enmore Steeple -	25 18 0	
Weston in Zoyland Steeple	54 45 0	32020
North Petherton Steeple	84 34 0	26267
Creech, St. Michael -	40 41 0	
Danesbury - - -	24 5 0	9291
Crowcomb - - -	54 39 0	4649
Quantockshead - -	101 16 0	
Danesbury - - -	21 48 0	13487
Crowcomb - - -	105 5 30	5188
West Quantock Station	53 6 30	
Danesbury - - -	34 5 0	16897
West Quantock -	93 4 0	9483
E. Quantockshead Steeple	52 51 0	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
	° ′ ″	
Danesbury - -	31 48 0	16889
Quantockshead - -	119 38 0	10239
E. Quantockshead Steeple	28 34 0	
Crowcomb - -	25 31 0	38996
Danesbury - -	145 2 0	29312
Stockland Steeple - - -	9 27 0	
Quantockshead - -	45 54 0	35026
Danesbury - -	120 57 0	29329
Stockland Steeple - - -	13 9 0	
Danesbury - -	44 24 0	18293
West Quantock - -	88 8 0	12806
Summer House - -	47 28 0	
Danesbury - -	42 7 0	18282
Quantockshead - -	109 12 0	12982
Summer House - -	28 41 0	
Danesbury - -	66 4 0	18831
Quantockshead - -	84 31 0	17291
Little Stoke Steeple - -	29 25 0	
Danesbury - -	87 23 0	11729
West Quantock -	42 8 0	17465
Stringston Steeple -	50 29 0	
Danesbury - -	85 6 0	11722
Quantockshead - -	54 38 0	14323
Stringston Steeple -	40 16 0	
Danesbury - -	87 13 0	24433
West Quantock -	63 15 0	27329
Chimney of a white House	29 32 0	
Danesbury - -	84 56 0	24417
Quantockshead - -	73 39 0	25346
Chimney of white House	21 25 0	
Danesbury - -	33 17 0	7142
Crowcomb - -	37 0 0	6513
Crowcomb Knap -	109 43 0	
Crowcomb - -	119 5 0	33920
Crowcomb Knap -	52 11 30	37521
Summer House near Nettlecomb - -	8 43 30	
Crowcomb - -	46 36 0	33892
St. Decuman's Steeple -	90 8 30	24625
Summer House -	43 15 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet
	° ′ ″	
Crowcomb - - -	114 34 0	36769
Crowcomb Knap - -	56 54 0	39918
Clump of Trees near Nettlecomb - -	8 32 0	
Crowcomb - - -	51 7 0	36769
St. Decuman's Steeple	89 42 40	28622
Clump of Trees -	39 10 20	
Crowcomb - - -	123 52 0	24726
Crowcomb Knap -	45 20 0	28860
Tree near Nettlecomb	10 48 0	
Crowcomb - - -	41 49 0	24720
St. Decuman's Steeple	73 45 20	17167
Tree - - - -	64 25 40	
Brompton Ralph -	36 2 17	30155
Crowcomb - - -	84 43 22	17817
Quantock new Station	59 14 21	
Quantock new Station	92 50 0	15118
Crowcomb - - -	39 7 30	23931
Lydiard St. Lawrence -	48 2 30	
Quantock new Station	16 1 0	28848
Crowcomb - - -	141 14 0	12712
Sampford Bret Steeple	22 45 0	
Brompton Ralph - -	137 30 0	33288
Quantock new Station	22 21 0	59141
Blackhill - - - -	20 9 0	
Brompton Ralph - -	59 3 0	33278
Haddon Beacon -	51 30 0	36466
Blackhill - - -	69 27 10	
Haddon Beacon -	20 33 0	28127
Black Hill - - -	44 16 0	14145
Lype Hill - - -	115 11 0	
Black Hill - -	83 53 30	20131
Lype Hill - - -	59 3 0	23339
Grabbist Hill - -	37 3 30	
Haddon Beacon -	101 5 0	28130
Heydon Hill - -	42 44 0	40680
Lype Hill - - -	36 11 0	
Blackhill - - -	60 55 0	12832
Lype Hill - - -	54 48 30	13722
Barrow near Luxborough	64 16 30	

Names of Stations and intersected Objects.	Angles for Calculations.	Distances in Feet.
	° ′ ″	
Black Hill - - -	144 48 30	12838
Grabbist - - -	13 35 0	31504
Barrow near Luxborough	22 36 30	
Blackhill - - - -	59 10 0	5581
Lype Hill - - - -	22 4 30	12273
Barrow on Croydon Hill	98 55 30	
Lype Hill - - -	36 59 0	12270
Grabbist - - -	28 36 0	15420
Barrow on Croydon Hill	114 25 0	
Blackhill - - - -	106 3 30	27837
Grabbist - - -	43 52 0	38603
St. Decuman's Steeple	30 4 30	
St. Decuman's Steeple -	129 27 0	23226
Blackhill - - -	22 50 0	46216
Crowcomb - -	27 43 0	
Lype Hill - - -	14 28 0	37177
Grabbist - - -	143 44 0	15700
North Hill - - -	21 48 0	
Grabbist - - -	9 25 0	16730
North Hill - - -	106 22 0	2853
South Station on North Hill - - -	64 13 0	
Grabbist - - -	4 8 0	17124
North Hill - - -	138 10 0	1850
North Station on North Hill - -	37 42 0	
North Hill - - -	31 47 0	1851
South Station - -	37 19 0	1608
North Station - - -	110 54 0	
Lype Hill - - -	18 52 0	37016
Grabbist Hill - -	134 19 0	16729
South Station - -	26 49 0	
North Station - -	31 8 0	10040
South Station - -	143 23 0	8703
Porlock Steeple - -	5 29 0	
North Station - - -	130 17 0	16254
Grabbist Hill - -	24 10 0	30287
Chimney of House on Porlock Quay - - -	25 33 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
South Station - -	140 33 0	15438
Grabbist Hill -	18 54 0	30283
Chimney of House -	20 33 0	
Grabbist Hill -	129 33 0	14337
North Hill - -	24 0 0	27179
Dunster Gazebo -	26 27 0	
Grabbist Hill -	5 49 0	14294
St. Decuman's Steeple	3 24 0	24425
Dunster Gazebo -	170 47 0	
Black Hill - - -	23 36 0	24996
Grabbist Hill -	105 30 0	10385
Minehead Steeple -	50 54 0	
North Hill - -	55 27 0	11688
South Station -	111 25 0	10341
Luckham Steeple -	13 8 0	
North Hill - -	87 14 0	11694
North Station -	83 43 0	11751
Luckham Steeple -	9 3 0	
Grabbist Hill -	5 51 0	17966
Lype Hill - -	18 31 0	5766
Kippen's Cross -	155 38 0	
Grabbist Hill - -	20 52 0	17326
Lype Hill -	40 48 0	9445
Cutcomb Steeple -	118 20 0	
Lype Hill -	59 19 0	9444
Kippen's Cross -	83 21 0	8176
Cutcomb Steeple -	37 20 0	
Haddon Beacon -	101 9 0	12092
Lype Hill -	21 16 30	32696
Upton - - -	57 34 30	
Haddon Beacon -	65 33 0	21933
Heydon Hill -	52 22 0	25212
Bampton - - -	62 5 0	
Haddon Beacon -	65 28 0	21927
Upton -	81 29 0	20170
Bampton -	33 3 0	
Haddon Beacon -	39 28 0	34164
Upton - -	123 20 0	25992
Honiton Down -	17 12 0	

Names of Stations and intersected Objects	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Haddon Beacon -	26 0 0	34176
Bampton - -	120 23 0	17367
Honiton Down -	33 37 0	
Haddon Beacon -	66 48 30	18648
Honiton Down -	32 35 0	31830
Bampton Tree -	80 36 30	
Haddon Beacon -	40 49 0	18648
Bampton - -	57 19 0	14482
Bampton Tree -	81 52 0	
Tidcomb - -	46 1 30	38020
Haddon Beacon -	41 35 30	41217
Stoodley Beacon -	92 23 0	
Haddon Beacon -	52 46 0	32843
Stoodley Beacon -	50 46 30	33755
West Anstey -	76 27 30	
Haddon Beacon -	70 49 0	32839
Bampton Tree -	75 47 0	31995
West Anstey -	33 24 0	
Haddon Beacon -	18 3 0	18658
Stoodley Beacon -	13 50 0	24179
Bampton Tree -	148 7 0	
Haddon Beacon -	14 38 30	40229
Stoodley Beacon -	77 17 0	10425
Small Tree on Bickham Moor - -	88 4 30	
Haddon Beacon -	38 8 0	32836
Tree on Bickham Moor	54 37 0	24870
West Anstey -	87 15 0	
Haddon Beacon -	31 8 0	49723
Tidcomb - -	60 18 0	29596
Newcot Highway -	88 34 0	
Tidcomb - -	14 16 0	29593
Stoodley Beacon -	37 59 0	11850
Newcot Highway -	127 45 0	
Bampton - -	148 40 0	13436
Honiton Down -	13 37 0	29677
Morebath Steeple -	17 43 0	
Haddon Beacon -	13 59 0	35766
Bampton -	145 55 0	15422
East Tree on Chimney Down	20 6 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Haddon Beacon	12 1 0	35745
Honiton Down	96 7 0	7485
Tree on Chimney Down	71 52 0	
Haddon Beacon	92 55 30	27576
Stoodley Beacon	32 52 0	50747
Barn on Hill near Clayhanger	54 12 30	
Haddon Beacon	31 24 0	27552
Upton	128 31 0	18347
Barn	20 5 0	
Haddon Beacon	95 52 30	15565
Stoodley Beacon	19 53 0	45524
Tree near a Farm House	64 14 30	
West Anstey	70 1 30	4032
Stoodley Beacon	6 40 30	32598
East Anstey	103 18 0	
Haddon Beacon	51 51 30	28839
Stoodley Beacon	44 6 0	32593
East Anstey	84 2 30	
West Anstey	49 31 30	14273
East Anstey	115 44 0	12052
Beech Tree near 12 Acre Cross	14 44 30	
Haddon Beacon	8 31 0	18112
East Anstey	13 47 30	11252
Tree in the middle of a Field near Dulverton	157 41 30	
Haddon Beacon	74 40 0	28364
East Anstey	52 2 30	34693
Stert Barn	53 17 30	
Haddon Beacon	17 26 0	27407
Upton	149 42 30	16279
Small Tree on Layton Down	12 51 30	
Haddon Beacon	118 35 0	27409
Lype Hill	30 16 0	47752
Tree on Layton Down	31 9 0	
Haddon Beacon	43 55 0	16664
West Anstey	29 1 0	23830
Clump of Firs on Hill near Brushford	107 4 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Haddon Beacon	41 4 0	15953
Bampton Tree	57 43 0	12396
Brushford	81 13 0	
Haddon Beacon	59 28 0	17010
Bampton Tree	55 40 0	17742
Dulverton	64 52 0	
Bampton Tree	2 3 0	17724
Brushford	173 12 0	5355
Dulverton	4 45 0	
Bampton Tree	5 33 0	18023
Dulverton	96 25 0	1754
Dulverton Steeple	78 2 0	
Bampton Tree	7 36 0	17998
Brushford	156 23 0	5942
Dulverton Steeple	16 1 0	
West Anstey	68 0 30	7518
East Anstey	80 6 0	7076
East Anstey Steeple	31 53 30	
Haddon Beacon	121 17 0	29348
Upton	42 32 30	37096
Oakford Steeple	16 10 30	
Haddon Beacon	29 30 0	6791
Upton	28 25 0	7028
Upton Steeple	122 5 0	
Haddon Beacon	113 5 0	10033
Heydon Hill	18 0 0	29868
Brompton, Regis	48 55 0	
Haddon Beacon	14 7 0	33561
Tidcomb	18 21 0	26000
Clump of Firs on a Hill between Bampton and Tiverton	147 32 0	
Haddon Beacon	68 38 0	33563
Upton	90 15 0	31257
Clump of Firs	21 7 0	
Haddon Beacon	4 26 0	33865
Tidcomb	6 22 0	23607
Small Tree on a Hill between Bampton and Tiverton	169 12 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Culmstock - -	57 27 30	28024
Sampford -	111 12 0	25339
Ashbrittle Steeple -	11 20 30	
Culmstock - -	68 22 10	21771
Sampford -	95 57 49	20348
Holcombe Rogus -	15 40 1	
Culmstock - -	34 9 55	13031
Sampford - -	123 38 48	8790
White Ball Inn -	22 11 17	
Culmstock -	14 51 34	17667
Gaddon Hill -	66 31 42	4940
Uffculme Steeple -	98 36 35	
Culmstock - -	12 54 9	5711
Kentisbere -	5 4 19	14424
Culmstock Steeple -	162 1 32	
Quantock - -	31 59 11	47425
Staple Hill -	45 1 22	35513
Wellington Steeple -	102 59 27	
Brompton Ralph -	69 39 13	48141
Quantock -	72 9 9	47419
Wellington Steeple -	38 11 38	
Quantock - -	8 50 25	40289
Staple Hill - -	13 38 21	26257
St. Mary's Steeple, Taunton	157 31 14	
Quantock -	112 58 35	40315
Brompton Ralph -	38 17 37	59895
St. Mary's Steeple -	28 43 44	
Qantock - -	22 40 37	11340
Staple Hill - -	4 33 23	55037
Cothelestone Lodge -	152 46 0	
Quantock - -	99 6 6	23492
Staple Hill -	18 34 15	72835
Willet Hill Summer House	62 19 39	
Brompton Ralph -	14 40 32	8140
Quantock - -	5 2 14	23487
Willet Hill Summer House	160 17 14	
Quantock - -	56 18 58	26793
Staple Hill -	23 50 5	55172
Fitzhead Steeple -	99 50 57	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ″ ′	
Quantock - -	42 38 13	76663
Staple Hill -	80 14 37	52690
Lady Chatham's Obelisk	57 7 10	
Brompton Ralph -	30 42 17	34409
Quantock - -	84 31 4	17650
Bishop's Lydiard -	64 46 39	
Brompton Ralph -	28 11 7	27429
Quantock - -	61 17 41	14771
Combe Florey Steeple	90 31 12	
Brompton Ralph -	56 11 49	23886
Quantock - -	47 49 22	26783
Fitzhead Steeple -	75 58 49	
Brompton Ralph -	49 27 55	30106
Quantock - -	62 54 23	25701
Halse Steeple -	67 37 42	
Brompton Ralph -	87 22 3	20516
Quantock - -	34 2 54	36604
Wiveliscomb Steeple	58 35 3	
Wellington Steeple -	133 57 0	17432
Staple Hill - -	14 56 0	49238
Milverton Steeple -	81 17 0	
Wellington Steeple -	34 10 0	11601
Milverton Steeple -	39 45 0	10188
Langford Budville -	106 5 0	
Wellington Steeple -	11 45 0	6021
Milverton Steeple -	6 4 0	11602
Ninehead Steeple -	162 11 0	
Wellington Steeple -	118 40 0	10763
Milverton Steeple -	22 41 0	24489
Buckland Steeple -	38 39 0	
Wellington Steeple -	68 54 0	24679
Milverton Steeple -	69 38 0	24560
Norton Fitzwarren -	41 28 0	
Wellington Steeple -	78 15 0	12535
Milverton Steeple -	39 31 0	19287
Bradford Steeple -	62 14 0	
Wellington Steeple -	56 31 0	15000
Milverton Steeple -	53 48 0	15503
Hill Farence - -	69 41 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Staple Hill - -	44 22 41	43255
Castlineroach -	124 3 44	36517
Fivehead Steeple -	11 35 35	
Staple Hill - -	130 22 0	33651
Castlineroach -	38 28 42	41206
Norton Fitzwarren -	11 9 18	
Staple Hill - -	39 27 17	33599
Castlineroach -	125 56 33	26372
Curry Mallet Steeple -	14 36 10	
Staple Hill - -	75 17 0	16715
Castlineroach -	68 58 0	17320
Thurlebeer Steeple -	35 45 0	
Staple Hill - -	59 3 56	20438
Castlineroach -	90 8 33	17531
West Hatch Steeple -	30 47 31	
Staple Hill - -	35 54 0	31494
Castlineroach -	132 52 0	39366
Isle Abbot's Steeple -	11 14 0	
Staple Hill - -	18 52 0	36620
Castlineroach -	153 55 0	26933
Ilton Steeple -	7 13 0	
Staple Hill - -	74 24 0	27507
Castlineroach -	83 24 0	26671
Thorne Falcon Steeple -	22 12 0	
Staple Hill - -	59 17 13	49272
Castlineroach -	109 8 26	44840
Stoke St. Gregory Steeple	11 34 21	
Staple Hill - -	19 4 15	26280
Castlineroach -	149 8 56	16745
Ashill Steeple -	11 46 49	
Dumpdon -	18 7 0	46168
Staple Hill -	78 44 0	14638
Clump of Firs on Buckland Hill - -	83 9 0	
Dumpdon - -	6 8 0	35939
Staple Hill -	19 14 0	11656
Brown Down -	154 38 0	
Dumpdon - -	7 5 0	44542
Staple Hill -	65 12 0	6050
Barrow on Hill near Otterford - -	107 43 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Staple Hill - -	45 58 0	6026
Brown Down -	30 7 0	8634
Barrow on Hill -	103 55 0	
Brown Down -	60 43 0	19617
Barrow on Hill -	93 13 0	17137
Comb Beacon -	26 4 0	
Staple Hill - -	59 30 0	14626
Brown Down - -	71 26 0	13294
Clump on Buckland Hill	49 4 0	
Brown Down -	19 24 0	19620
Clump on Buckland Hill	128 39 0	8345
Comb Beacon - -	31 57 0	
Brown Down -	39 24 0	27397
Clump on Buckland Hill	114 22 0	19090
Snowdown - -	26 14 0	
Brown Down - -	20 0 0	27399
Combe Beacon -	123 10 30	11196
Snowdown -	36 49 30	
Combe Beacon -	51 26 0	20387
Snowdown - -	95 25 30	16012
Prize Hill -	33 8 30	
Comb Beacon -	93 37 30	17823
Prize Hill - -	39 35 0	27915
Bailey Down - -	46 47 30	
Bailey Down -	20 2 30	22436
Comb Beacon -	112 56 30	8349
Clump on Buckland Hill	47 1 0	
Snowdown - -	54 22 0	5402
Prize Hill - -	18 50 30	13594
Chard Steeple -	106 47 30	
Kentisbere - -	145 3 0	14490
Wherry Farm -	22 18 0	17346
Hemyock -	12 39 0	
Kentisbere -	135 2 0	30044
Wherry Farm -	37 17 0	35050
Clay-Hydon Steeple -	7 41 0	
Kentisbere - -	10 1 0	30066
Hemyock -	163 54 0	18858
Clay-Hydon Steeple -	6 5 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Clay-Hydon Steeple -	28 13 0	7111
Hemyock - -	14 57 0	13033
Barn on a Hill -	136 50 0	
Kentisbeare - -	55 33 0	25215
Clay-Hydon Steeple -	52 46 0	26116
Beech Tree -	71 41 0	
Kentisbeare - -	119 14 0	47029
Wherry Farm -	54 12 0	50599
East Chimney of Holman Clavell - -	6 34 0	
Wherry Farm - -	31 54 0	50600
Hemyock - -	133 46 0	37026
Holman Clavell -	14 20 0	
Kentisbeare - -	33 4 0	38381
Hemyock -	134 38 0	29427
Holly Tree near the Taunton Turnpike Road	12 18 0	
Hemyock - -	29 16 0	29431
Clay-Hydon Steeple -	115 21 0	15921
Holly Tree -	35 23 0	
Upcot Pen - -	62 6 0	554
Hembury Fort -	2 15 0	12461
Upcot Pen New Station	115 39 0	
Upcot Pen -	111 23 0	554
Wherry Farm -	12 33 0	2374
Upcot Pen New Station	56 4 0	
Upcot Pen New Station	113 16 0	25777
Wherry Farm - -	62 4 0	26803
Clist-Hydon Steeple -	4 40 0	
Upcot Pen New Station	75 1 0	25812
Hembury Fort -	76 56 0	25597
Clist-Hydon Steeple -	28 3 0	
Upcot Pen New Station	117 50 0	25099
Hembury Fort -	42 33 0	32821
Columpton Steeple - -	19 37 0	
Kentisbeare - -	74 24 0	25209
Wherry Farm -	90 21 0	24281
Columpton Steeple -	15 15 0	
Culmstock - -	34 51 28	38877
Kentisbere - -	118 18 25	25238
Columpton Steeple -	26 50 7	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Hembury Fort - -	18 14 0	22384
Upcot Pen New Station	141 29 0	11246
Kentisbere Steeple -	20 17 0	
Kentisbere - -	68 45 0	9885
Wherry Farm -	71 41 30	9704
Kentisbere Steeple -	39 33 30	
Wherry Farm -	60 20 30	20085
Upcot Pen New Station	113 26 0	19023
Plymtree Church -	6 13 30	
Hembury Fort -	103 12 0	18153
Upcot Pen New Station	46 47 0	24251
Tallaton Steeple -	30 1 0	
Kentisbere - -	127 0 0	27459
Wherry Farm -	43 26 30	31892
Sampford Peverel -	9 33 30	
Gaddon Hill - -	162 52 29	21714
Kentisbere - - -	11 28 44	32127
Holburton Steeple -	5 38 47	
Kentisbere - - -	101 21 9	19830
Wherry Farm -	61 32 59	22113
Williton Steeple -	17 5 52	
Hembury Fort -	26 27 31	24628
North Ottery Moor -	92 40 15	10985
St. Mary Ottery Steeple	60 52 14	
Hembury Fort -	111 53 4	37266
North Ottery Moor -	44 18 26	49507
Bradninch Steeple -	23 48 30	
Hembury Fort -	79 44 12	8663
North Ottery Moor -	23 5 26	21735
Pehembury Steeple -	77 10 22	
North Ottery Moor -	120 36 14	21741
South Ottery Moor -	31 36 52	35698
Pehembury Steeple	27 46 54	
North Ottery Moor -	145 32 54	19631
South Ottery Moor -	17 21 44	37215
Admiral Graves's House	17 5 22	
Hembury Fort - -	50 42 45	18352
North Ottery Moor -	55 4 44	17323
Honiton Chapel -	74 12 31	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
South Ottery Moor -	65 46 32	47012
West Ottery Moor -	89 18 32	42875
General Simcoe's House	24 54 56	
Dumpdon - -	37 58 0	21637
Harner Hill - -	57 17 0	15760
Widworthy - -	84 45 0	
Dumpdon - -	8 43 0	35261
Harner Hill -	150 14 0	10763
Membury - - -	21 3 0	
Harner Hill -	152 29 0	10762
Widworthy - -	11 7 0	25789
Membury - - -	16 24 0	
Harner Hill -	97 37 0	28725
Widworthy -	55 30 0	34547
Chimney of Hunter's Lodge - -	26 53 0	
Harner Hill -	54 52 0	28711
Membury - -	103 47 0	24176
Chimney of Hunter's Lodge -	21 21 0	
Widworthy - -	44 23 0	34540
Membury -	87 23 0	24184
Chimney of Hunter's Lodge - -	48 14 0	
Harner Hill - -	37 52 0	25125
Membury -	120 28 0	17893
Chimney of Cuthay's House - - -	21 40 0	
Harner Hill -	123 42 0	40765
Widworthy - -	41 28 0	51216
Lambert's Castle - -	14 50 0	
Harner Hill - -	128 20 0	30619
Widworthy - -	34 39 0	42243
Hawkchurch - - -	17 1 0	
Widworthy - -	23 33 0	42243
Membury - -	127 28 0	21265
Hawkchurch -	28 59 0	
Harner Hill -	66 9 0	25571
Widworthy - -	76 57 0	24007
Musbury Steeple -	36 54 0	
Membury - -	53 54 0	27096
Widworthy - -	65 50 0	23996
Musbury Steeple -	60 16 0	
Harner Hil - -	106 43 0	37392
Membury - -	59 0 0	41779
Seaton Steeple -	14 17 0	
Harner Hill -	34 55 0	46472
Widworthy - -	130 2 0	34741
Beer Signal Staff -	15 3 0	
Harner Hill -	56 47 0	14899
Widworthy - -	58 38 0	14598
Shute Hill Signal Staff	64 35 0	
Widworthy - -	47 31 0	14598
Membury - -	34 3 0	19227
Shute Hill Signal Staff	98 26 0	
Harner Hill - -	134 44 20	18753
Beacon Hill - -	39 56 4	20752
Axminster Steeple -	5 19 36	
Widworthy - -	140 2 0	22145
Membury -	18 24 0	45066
Wishcomb Tower -	21 34 0	
Dumpdon - - -	40 8 0	15929
Widworthy - -	47 36 0	13904
Turnpike House on Hill South of Honiton -	92 16 0	
Dumpdon - - -	27 2 0	11989
Widworthy -	26 37 0	12163
Fir Tree near Russell Buildings - -	126 21 0	
Widworthy - -	23 6 0	22171
Wishcomb - -	78 37 0	8873
Broad Down - -	78 17 0	
Widworthy - -	21 7 0	34740
Wishcomb - -	129 21 0	16185
Beer Signal Staff -	29 32 0	
Wishcomb - -	38 31 0	27759
Broad Down - -	126 37 0	21537
South Ottery Moor -	14 52 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
South Ottery Moor	125 43 0	8615
Broad Down - -	14 45 0	27471
North Station Peak Hill	39 32 0	
South Ottery Moor -	110 51 0	8624
Wishcomb - -	14 39 0	31864
North Station Peak Hill	54 30 0	
Broad Down - -	21 42 0	19902
North Station Peak Hill	39 20 0	11610
Salcomb Hill - -	118 58 0	
South Ottery Moor -	64 54 0	13045
Broad Down - -	36 26 0	19891
Salcomb Hill -	78 40 0	
South Ottery Moor -	62 57 0	11700
Salcomb Hill -	53 27 0	12971
South Station Peak Hill	63 36 0	
Salcomb Hill - -	155 45 0	14333
Broad Down -	10 7 30	33486
High Peak Station -	14 7 30	
Salcomb Hill - -	13 10 0	12969
North Station Peak Hill	109 1 0	3125
South Station Peak Hill	57 49 0	
South Ottery Moor	113 51 0	14464
Broad Down - -	25 47 0	30413
Peak Hill Signal Staff	40 22 0	
South Ottery Moor -	13 58 0	14475
South Station Peak Hill	123 54 0	4209
Peak Hill Signal Staff	42 8 0	
South Ottery Moor -	19 48 0	22212
Broad Down - -	85 9 0	7551
Clump of Firs on Farway Hill - -	75 3 0	
South Ottery Moor	20 17 0	20870
Broad Down - -	74 50 0	7496
Cottage on Broad Down	84 53 0	
Wishcomb Tower -	54 19 0	7256
Broad Down - -	51 47 0	7502
Cottage on Broad Down	73 54 0	
Widworthy - -	20 12 0	15059
Wishcomb Tower -	32 59 0	9552
Widden Pen - -	126 49 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Widworthy - -	29 20 30	8192
Widden Pen -	26 53 0	8878
North Leigh - -	123 46 30	
Widworthy - -	9 9 0	8197
Wishcomb Tower -	5 18 0	14113
North Leigh - -	165 33 0	
North Leigh - -	79 10 0	3418
Widden Pen -	22 10 30	8893
North Leigh Steeple -	78 39 30	
Widworthy - -	113 21 0	7364
Widden Pen -	20 36 30	19207
Offwell Steeple -	46 2 30	
Salcomb Hill -	40 8 0	5834
North Station Peak Hill	27 50 0	8073
Sidmouth Steeple -	112 2 0	
Widworthy - -	65 0 0	39549
Wishcomb -	81 23 0	36252
Whitland's Signal Staff	33 37 0	
South Ottery Moor	11 36 0	21858
South Station Peak Hill	155 39 0	10660
Otterton Steeple -	12 45 0	
High Peak - -	98 40 0	8130
South Station Peak Hill	49 2 0	10644
Otterton Steeple -	32 18 0	
Salcomb Hill -	23 38 0	14345
South Station Peak Hill	91 43 0	5753
High Peak - -	64 39 0	
South Ottery Moor -	20 16 0	24820
South Station Peak Hill	143 25 0	14425
Budleigh Steeple -	16 19 0	
South Station Peak Hill	61 16 0	14415
High Peak - -	95 19 0	12694
Budleigh Steeple -	23 25 0	
South Ottery Moor -	52 8 0	26288
South Station Peak Hill	102 4 0	21221
Clump of Firs on Woodbury Hill - -	25 48 0	
South Ottery Moor -	67 22 0	15511
South Station Peak Hill	68 10 0	15416
Red Brick House on West Ottery Moor - -	44 28 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
South Station Peak Hill	136 30 0	15409
High Peak - -	32 4 0	19979
Red Brick House -	11 26 0	
South Station Peak Hill	84 42 0	6453
High Peak - -	51 15 0	8239
Colyton Rawleigh -	44 3 0	
South Ottery Moor -	44 22 0	20169
Broad Down - -	63 13 0	15798
Weston House - -	72 25 0	
Hembury Fort - -	6 57 0	12262
General Simcoe's Signal Staff - -	136 58 0	2174
St. Size Hill - -	36 5 0	
Hembury Fort -	13 32 0	7979
St. Size Hill - -	22 31 0	4876
Awliscombe Steeple -	143 57 0	
Hembury Fort -	66 26 0	20836
General Simcoe's Staff	83 16 30	19230
North Ottery New Station	30 17 30	
Hembury Fort -	29 48 0	6944
North Ottery New Station	13 7 0	15207
Buckerell - -	137 5 0	
Hembury Fort - -	36 38 0	6943
General Simcoe's Staff	39 35 0	6502
Buckerell - -	103 47 0	
Hembury Fort -	94 35 0	1214
General Simcoe's Staff	6 28 0	10748
HemburyFort New Station	78 57 0	
Hembury Fort - -	33 31 0	6757
Hembury Fort New Station	139 49 30	5783
Broadhembury Steeple	6 39 30	
North Ottery New Station	7 55 0	11693
Buckerell - - -	23 57 0	3967
Buckerell Steeple -	148 8 0	
Hembury Fort -	23 14 0	9253
Buckerell - -	113 8 0	3969
Buckerell Steeple -	43 38 0	
North Ottery New Station	36 59 0	10913
Buckerell - -	45 20 0	9231
Fenyton Steeple -	97 41 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Hembury Fort -	14 48 0	20540
St. Size Hill - -	145 22 0	9232
Honiton Steeple -	19 50 0	
St. Size Hill - -	83 54 0	11105
Honiton Steeple -	53 54 0	13666
Dumpdon - -	42 12 0	
Dumpdon - -	152 38 0	9440
Honiton Steeple -	11 8 0	22472
Luppit Steeple -	16 14 0	
Dumpdon - -	157 6 0	14516
Honiton Steeple -	11 48 0	27622
Upottery Steeple -	11 6 0	
Honiton Steeple -	65 42 0	27633
St. Size Hill - -	94 51 20	25276
Upottery Steeple -	19 26 40	
Tidcomb - -	85 19 0	27431
Stoodley Beacon -	37 23 0	45030
Cadbury Castle -	57 18 0	
Tidcomb - -	36 23 0	27436
Christcross - -	98 13 0	16443
Cadbury Castle -	45 24 0	
Christcross - -	72 26 30	16450
Rocks Barton - -	29 37 0	31735
Cadbury Castle - -	77 56 30	
Cadbury Castle -	63 25 0	3628
Rocks Barton - -	6 9 0	30286
Furzdon - -	110 26 0	
Tidcomb - -	101 45 0	29927
Cadbury Castle -	41 9 0	44527
Studley Steeple -	37 6 0	
Cadbury Castle - -	165 42 0	21318
Furzdon - -	12 14 0	24852
Poughill Steeple -	2 4 0	
Cadbury Castle -	103 25 0	8673
Furzdon - -	56 14 0	10148
Cadeleigh Steeple -	20 21 0	
Cadbury Castle -	81 15 0	4853
Cadleigh Steeple - -	31 9 0	9272
Prawhill - -	67 36 0	

Names of Stations and intersected Objects,	Angles for Calculation.	Distances in Feet.
Cadbury Castle - -	18 58 0	21326
Prawhill - -	155 39 0	16811
Poughill Steeple - -	5 23 0	
Prawhill - -	23 17 0	10552
Poughill Steeple -	30 22 0	8250
Cheriton Fitzpain Steeple	126 21 0	
Tidcomb - -	45 46 0	13302
Newcot Highway - -	25 8 0	22440
Turret on a House near Tiverton - -	109 6 0	
Christcross - -	10 45 0	32189
Tidcomb - -	153 12 0	13316
Turret on House -	16 3 0	
Newcot Highway -	156 8 0	2230
Stoodley Beacon - -	3 43 0	13918
Templeton Tree -	20 9 0	
Stoodley Beacon -	20 16 0	21600
Newcot Highway -	138 29 0	11325
Cruwys Morchard Steeple	21 15 0	
Newcot Highway -	96 59 0	16683
Cruwys Morchard Steeple	57 7 0	21282
Rackenford Steeple -	31 54 0	
Newcot Highway -	42 30 0	16682
Stoodley Beacon -	92 17 0	11279
Rackenford Steeple -	45 13 0	
Whitestone - -	122 23 46	53468
Exeter Cathedral -	43 8 45	66017
Puddington Steeple -	14 27 29	
Cadbury Castle - -	111 32 0	11346
Rocks Barton - -	16 23 0	37419
Bickleigh Steeple -	52 5 0	
Christcross - -	35 58 0	52446
Tidcomb - -	126 24 0	38268
Burlescombe Steeple -	17 38 0	
Christcross - -	17 13 0	37364
Tidcomb - -	145 16 0	19410
Uploman Steeple -	17 31 0	
Cadbury Castle -	13 53 0	25688
Rocks Barton - -	42 12 0	9176
Upton Pyne Steeple -	123 55 0	

Names of Stations and intersected Objects,	Angles for Calculation.	Distances in Feet.
Cadbury Castle - -	16 33 0	22535
Rocks Barton - -	32 21 0	11996
Rewe Steeple - -	131 6 0	
Furzdon - -	15 9 0	20234
Rocks Barton - -	26 11 0	11985
Rewe Steeple - -	138 40 0	
Whitestone - -	20 22 8	11701
Christcross -	6 25 14	36420
Newton St. Cyrus Steeple	153 12 38	
Whitestone - -	22 58 38	26581
Christcross - -	24 34 32	24949
Stoke, Cannon's Steeple	132 26 50	
Whitestone - -	17 22 34	23348
Christcross - -	15 39 24	25837
Brampfordspeke Steeple	146 58 2	
Whitestone - -	95 4 27	1515
Christcross - -	1 49 37	47319
Whitestone Steeple	83 5 36	
Whitestone - -	15 7 10	47144
Christcross -	149 45 20	9104
Gernsey's Gazebo -	15 7 30	
Whitestone - -	84 10 43	83647
Christcross - -	61 42 13	74034
Woodbury Signal Staff	34 7 4	
Whitestone - -	45 3 0	50780
Christcross - -	72 34 0	37668
Rockbeare Steeple -	62 23 0	
Whitestone - -	56 11 50	57187
Christcross - -	72 6 10	49936
Aylesbeare Steeple -	51 42 0	
Cadbury Castle -	31 28 0	59817
Rocksbarton - -	121 42 0	36699
Aylesbeare Steeple -	26 50 0	
Christcross - -	47 16 0	49936
Rocksbarton - -	92 5 0	36703
Aylesbeare Steeple -	40 39 0	
Christcross - -	120 27 0	21818
Cadbury Castle -	34 22 0	33318
Spray down - -	25 11 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Haldon Old Station -	87 58 14	18903
Haldon New Station	64 2 21	21012
Alphington Steeple -	27 59 25	
Haldon Old Station -	8 44 54	18917
Exeter Cathedral -	19 46 6	8507
Alphington Steeple	151 29 0	
Haldon Old Station -	133 7 35	30396
Haldon New Station	35 54 1	37834
Whitestone Steeple -	10 58 24	
Haldon Old Station -	11 35 36	40660
Haldon New Station -	164 44 45	31057
Exmouth Chapel -	3 39 39	
Haldon New Station -	101 33 46	29125
Exeter Cathedral -	38 53 40	45445
Exmouth Mill -	39 32 34	
Haldon Old Station -	24 40 48	25441
Haldon New Station	141 16 44	16982
Belvidere at Powderham	14 2 28	
Haldon Old Station -	72 2 20	25446
Exeter Cathedral -	52 5 0	30683
Belvidere at Powderham	55 52 40	
Haldon Old Station -	21 35 8	27701
Haldon New Station	147 19 39	18878
Vane on the Square Tower Powderham Castle	11 5 13	
Haldon Old Station -	51 48 4	27761
Haldon New Station -	108 29 59	23005
Topsham Chapel -	19 41 57	
Haldon Old Station -	39 42 0	12035
Haldon New Station -	85 28 57	7712
Kenn Steeple -	54 49 3	
Haldon Old Station -	71 28 14	38040
Haldon New Station	93 31 27	36136
Sourton Steeple -	15 0 19	
Haldon Old Station -	41 33 48	41147
Haldon New Station	127 27 49	34393
Woodbury Steeple -	10 58 23	
Haldon Old Station -	86 9 35	28656
Haldon New Station -	74 27 53	29676
Heavitree Steeple -	19 22 32	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Haldon Old Station -	55 0 56	21308
Haldon New Station -	97 39 54	17615
Exminster Steeple -	27 19 10	
Haldon Old Station -	32 42 36	46633
Haldon New Station	139 22 13	38700
Woodbury Hill Summer House - -	7 55 11	
Haldon Old Station -	71 13 38	43614
Haldon New Station -	95 45 50	41503
Honiton Clyst Steeple	13 0 32	
Haldon New Station -	61 3 40	14292
Exeter Cathedral -	28 56 40	25844
Lawrence Tower -	89 59 40	
Haldon Old Station -	74 10 20	44631
Exeter Cathedral -	9 33 50	25844
Lawrence Tower -	96 15 50	
Haldon Old Station -	17 13 0	16293
Lawrence Tower -	156 31 0	12102
Castle Hill - -	6 16 0	
Haldon Old Station -	12 52 0	14689
Castle Hill - -	58 55 0	3820
Small Clump of Firs on the Point of a Hill - -	108 13 0	
Castle Hill - -	70 17 0	5679
Clump of Firs -	70 24 0	5675
White Chimney of third House from Exeter at Longdown End -	39 19 0	
Haldon Old Station	20 27 0	10024
Whitestone Steeple -	9 28 0	21294
Dunchideock -	150 5 0	
Haldon Old Station -	17 18 0	10018
Lawrence Tower -	149 43 0	5907
Dunchideock -	12 59 0	
Haldon Old Station -	9 39 0	8514
Dunchideock -	41 15 0	2164
Dunchideock Steeple	129 6 0	
Haldon Old Station -	20 16 0	5639
Dunchideock -	22 26 0	5118
Turret on North Wing of Haldon House -	137 18 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in feet.
	° ′ ″	
Haldon Old Station -	83 47 0	10279
Lawrence Tower -	71 51 0	10754
Shillingford Steeple -	24 22 0	
Haldon Old Station -	13 5 0	978
Lawrence Tower -	3 36 30	3517
A New Station on Haldon	163 18 30	
New Station - -	42 32 30	2275
Lawrence Tower -	39 52 30	2399
Ashton - - -	97 35 0	
Lawrence Tower -	107 26 0	6018
Ashton - - -	53 48 0	7115
Doddescombeleigh Steeple	18 46 0	
Castle Hill - -	58 46 0	6278
Chump of Firs - -	84 0 0	5398
Dunchideock - -	37 14 0	
Castle Hill - -	129 2 0	5673
Dunchideock - -	24 6 0	10791
Longdown End Chimney	26 52 0	
Lawrence Tower -	59 29 0	5982
Dunchideock -	60 53 0	5898
Doddescombeleigh Steeple	59 38 0	
Lawrence Tower -	57 25 0	7988
Ashton - -	105 47 0	6995
Ashton Steeple - -	16 48 0	
Haldon New Station	22 7 48	10541
Little Haldon -	12 34 57	18229
Lord Lisburn's Obelisk	145 17 15	
Lord Lisburn's Obelisk	18 58 50	18855
Little Haldon -	86 16 40	6146
Holcomb Down -	74 44 30	
Holcomb Down -	88 36 0	9217
Lord Lisburn's Obelisk -	26 19 0	20784
Lyndridge - -	65 5 0	
Holcomb Down -	61 56 0	24653
Lyndridge - -	96 15 0	21884
Coffinswell -	21 49 0	
Holcomb Down -	21 36 0	37511
Coffinswell - -	126 31 0	17182
Hopes-nose -	31 53 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Holcomb Down -	83 31 0	37500
Lyndridge -	82 23 0	37592
Hopes-nose - -	14 6 0	
Coffinswell - -	14 10 30	12624
Hopes-nose -	32 1 30	5830
Warbury Hill -	133 48 0	
Hopes-nose - -	27 5 0	3765
Warbury Hill -	34 41 0	3013
Torwood - -	118 14 0	
Warbury Hill -	78 22 0	20446
Coffinswell -	67 0 0	21756
Marldon - -	34 38 0	
Warbury Hill -	113 9 0	20439
Torwood -	59 33 0	21800
Marldon - -	7 18 0	
Holcomb Down -	73 35 30	13755
Lyndridge -	68 0 0	14232
Shaldon - -	38 24 30	
Lyndridge - -	28 16 0	14227
Coffinswell - -	35 46 0	11527
Shaldon - -	115 58 0	
Coffinswell -	18 6 30	6870
Hopes-nose -	11 20 0	10865
Church St. Mary Steeple	150 33 30	
Hopes-nose - -	20 42 0	10868
Warbury Hill -	138 28 0	5794
Church St. Mary Steeple	20 50 0	
Hopes-nose - -	49 56 0	20638
Warbury Hill -	115 16 0	17465
Paington Steeple -	14 48 0	
Torwood -	89 29 0	17228
Warbury Hill -	80 35 0	17463
Paington Steeple -	9 36 0	
Torwood - - -	55 5 0	13182
Warbury Hill -	112 45 0	11721
Cockington Steeple -	12 10 0	
Hopes-nose -	55 7 30	18920
Warbury Hill -	107 49 0	16304
Chimney of White House near Paington Bay	17 3 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Warbury Hill - -	73 7 0	16303
Torwood - - -	96 18 0	15695
Chimney of White House	10 35 0	
Torwood - - -	10 5 0	23857
Marldon - - -	112 1 0	4505
Tree on Beacon Hill -	57 54 0	
Warbury Hill -	51 52 30	7830
Coffinswell - -	38 20 0	9931
Building on Chapel Hill	89 47 30	
Lyndridge - -	19 48 0	18222
Coffinswell - -	52 29 0	7782
Furze Hill -	107 43 0	
Warbury Hill -	13 13 0	19506
Coffinswell - -	144 59 0	7772
Furze Hill - - -	21 48 0	
Coffinswell - -	36 47 0	11915
Furze Hill -	103 54 0	7350
King's Kerswell Steeple -	39 19 0	
Coffinswell - -	26 25 0	18633
Furze Hill - -	137 4 0	12170
Abbot's Kerswell Steeple	16 31 0	
Lyndridge - - -	114 34 0	19428
Shaldon - - -	38 23 0	28457
Teigngrace Spire -	27 3 0	
Lyndridge -	95 36 0	13422
Shaldon - -	40 41 0	20492
King's Teignton Steeple	43 43 0	
Lyndridge -	45 54 0	36059
Coffinswell - -	97 4 0	26093
Ipplepen Steeple -	37 2 0	
Coffinswell - -	33 42 0	18088
Shaldon - - -	109 20 0	10636
Bishop's Teignton -	36 58 0	
Lyndridge - -	41 21 30	12644
Holcomb Down -	91 52 30	8359
Signal Staff, Teignmouth Fort - -	46 46 0	
Holcomb Down -	94 33 0	7438
Shaldon - - -	27 20 0	16149
Dawlish Signal Staff -	58 7 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Lyndridge - -	97 28 0	20526
Shaldon - -	50 18 0	26452
Week Steeple - -	32 14 0	
Lyndridge - -	79 49 0	13312
Teigngrace Spire -	37 30 0	21522
Ideford - -	62 41 0	
Ideford - -	137 4 0	24285
Teigngrace Spire - -	5 48 0	36029
Chudleigh -	37 8 0	
Ideford - -	75 38 0	10114
Chudleigh - -	83 38 0	9858
Chudleigh Steeple -	20 44 0	
Little Haldon - -	37 24 5	54751
Rippon Tor - - -	69 24 30	35525
Blackingstone Rock -	73 11 25	
Rippon Tor Old Station	37 30 30	233
Blackingstone Rock -	0 13 50	35340
Rippon Tor New Station	142 15 40	
Blackingstone Rock -	137 45 0	8360
Rippon Tor New Station	7 42 30	41907
Mardon Down - -	34 32 30	
Rippon Tor New Station	17 20 30	44331
Mardon Down -	91 46 30	13220
Cranbrook Castle -	70 53 0	
Cranbrook Castle -	113 44 0	6322
Mardon Down -	20 9 30	16793
Drewsteignton - -	46 6 30	
Cranbrook Castle -	70 23 0	19188
Mardon Down -	69 26 30	19303
Cheriton Bishop's -	40 10 30	
Cranbrook Castle -	55 21 0	28371
Mardon Down -	97 6 30	23520
St. Mary Tedbourne -	27 32 30	
Cranbrook Castle -	38 30 0	45828
Mardon Down - -	128 26 30	36424
Whitestone Steeple -	13 3 30	
Cranbrook Castle -	110 29 0	21348
Mardon Down - -	44 1 30	28775
Hittesleigh - -	25 29 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Cranbrook Castle -	90 15 0	37570
Mardon Down - -	70 23 30	39882
Colebrooke - -	19 21 30	
Cranbrook Castle -	122 12 0	11703
Mardon Down -	26 58 30	21832
Barn - - -	30 49 30	
Cranbrook Castle - -	74 15 0	16977
Mardon Down -	62 12 30	18470
Calford House - -	43 32 30	
Cranbrook Castle -	60 49 0	15526
Mardon Down -	67 22 30	14685
Blacksmith's Shop -	51 48 30	
Bradbury Castle -	43 18 30	62585
Cawsand Beacon -	81 6 41	43450
Budleigh Steeple -	55 34 49	
Bradbury Castle -	25 33 37	27758
Hatherleigh -	44 46 37	17004
Inwardleigh Steeple -	109 39 46	
Bradbury Castle -	25 41 27	53507
Hatherleigh -	115 35 2	25718
Honey Church -	38 43 31	
Hatherleigh - -	86 42 3	14550
Bradbury Castle -	21 49 24	39075
Jacobstowe - -	71 28 33	
High Hampton -	63 9 0	16890
Hatherleigh - -	48 13 10	20208
Petrock Stowe -	68 37 50	
High Hampton -	32 41 0	22747
Hatherleigh - -	80 59 30	12437
Meeth -	66 19 30	
High Hampton -	24 58 0	28739
Hatherleigh - -	112 14 27	13105
Iddesleigh - -	42 47 33	
Bradbury Castle -	26 10 10	55431
High Hampton -	129 55 0	31874
Dowland - -	23 54 50	
Bradbury Castle -	46 30 36	63488
High Hampton -	107 21 30	48258
Winckley - -	26 7 54	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
High Hampton - -	19 28 0	54396
Winckley - - -	99 29 0	18379
Ring's Ash -	61 3 0	
Cawsand Beacon -	16 6 24	48119
Spreyton - - -	146 55 0	24456
Zeal Monashorum -	16 58 36	
Bradbury Castle -	33 8 35	62545
Cawsand Beacon -	90 11 32	34196
North Tawton -	56 39 53	
Hatherleigh - -	48 26 50	23959
High Hampton -	73 49 30	18668
North Lewe -	57 43 40	
High Hampton -	118 22 50	19475
Hatherleigh - -	29 26 51	34852
Beaworthy - - -	32 10 19	
Hatherleigh - -	19 0 0	34848
North Lewe - -	128 23 40	14476
Beaworthy - -	32 36 20	
St. Stephen's Down -	33 18 6	31587
Black Down - -	25 39 20	40057
Broadwoodwidger -	121 2 34	
St. Stephen's Down -	19 24 39	37474
Black Down -	24 37 50	29883
Stowford - - -	135 57 31	
Bradbury Castle -	33 2 40	14384
St. Stephen's Down	8 53 50	50715
Bratton Clovelly Steeple	138 3 30	
Bradbury Castle -	27 7 50	31743
St. Stephen's Down	23 6 56	36872
Ashwater - -	129 45 14	
Bradbury Castle -	55 9 18	50489
St. Stephen's Down -	51 12 3	53168
Brent Tor - -	73 38 39	
Black Down - -	54 11 0	37331
St. Stephen's Down -	36 39 57	50693
Bratton Clovelly -	89 9 3	
Bratton Clovelly -	20 6 40	33751
St. Stephen's Down -	31 25 0	22263
Lifton Steeple -	128 28 20	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Black Down - -	5 31 6	77732
St. Stephen's Down	153 18 7	16637
North Petherwin Steeple	21 10 47	
Black Down - -	15 25 47	70014
St. Stephen's Down -	104 58 29	19282
Boyton Steeple -	59 35 44	
Black Down - -	4 46 37	61290
St. Stephen's Down -	74 20 14	5301
Werrington Steeple -	100 53 9	
St. Stephen's Down -	120 10 29	58942
Warbstow - -	35 23 31	87980
Bradbury Barrow -	24 26 0	
St. Stephen's Down -	65 54 33	36515
Warbstow - -	50 47 45	43018
North Tamerton Steeple	63 17 42	
St. Stephen's Down -	11 42 24	36515
Holsworthy Steeple	17 59 20	23990
North Tamerton Steeple	150 18 16	
St. Stephen's Down -	10 53 0	33999
North Tamerton Steeple	64 1 20	7141
Tetcott Steeple -	105 5 40	
St. Stephen's Down -	19 42 13	33998
Bridgerule - -	24 38 17	27496
Tetcott Steeple -	135 39 30	
St. Stephen's Down -	31 58 40	24206
North Tamerton Steeple	38 44 0	20488
Chapmanswell -	109 17 20	
Holsworthy Steeple -	13 9 0	36841
St. Stephen's Down -	20 16 0	24196
Chapmanswell -	146 35 0	
St. Stephen's Down -	13 39 50	28367
Chapmanswell -	116 40 50	7499
Virginstowe - -	49 39 20	
Stamford - -	32 19 30	2264
Week St. Mary Steeple	2 25 10	28681
Stratton Steeple -	145 15 20	
Stamford - -	152 6 0	2828
Week St. Mary -	2 17 30	33094
Poughill Steeple -	25 36 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Stamford - -	46 4 30	11563
Stratton Steeple -	124 39 20	10124
Church Marham Steeple	9 16 10	
Holsworthy Steeple -	75 21 40	15114
Beacon Moor -	54 26 0	17977
Holsworthy Beacon - -	50 12 20	
Holsworthy Beacon -	64 57 0	26502
Beacon Moor - -	74 17 0	24941
Shebbear - - -	40 46 0	
Holsworthy Steeple -	33 3 30	35662
Beacon Moor -	128 45 0	24944
Shebbear - - -	18 11 30	
Holsworthy Beacon -	84 44 0	17911
Beacon Moor -	47 31 0	24184
Newton St. Petrock -	47 45 0	
Holsworthy Beacon -	101 52 0	11691
Shebbear - -	21 35 40	31088
Sutcombe Steeple -	56 32 20	
Holsworthy Beacon -	65 47 30	12759
Sutcombe Steeple -	57 12 30	11719
Milton Damerell -	57 0 0	
Shebbear - -	26 31 30	12670
Sutcombe Steeple -	15 59 30	20543
Thornbury Steeple -	137 29 0	
Pyworthy Steeple -	44 14 0	23145
Beacon Moor - -	63 57 0	17971
Holsworthy Beacon -	71 49 0	
Holsworthy Beacon -	60 12 30	18334
Pyworthy Steeple -	48 35 0	21216
Hollacombe Steeple -	71 12 30	
Holsworthy Steeple -	72 54 0	23280
Beacon Moor -	71 32 0	23459
Belland Down -	35 34 0	
Beacon Moor -	45 0 6	33765
Bradbury Castle -	54 35 48	29293
High Hampton -	80 24 6	
Beacon Moor -	9 37 30	33950
High Hampton -	87 2 30	5684
Sheepwash - -	83 20 0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
High Hampton -	57	29	0	8880
Sheepwash - -	83	4	0	7543
Black Torrington -	39	27	0	
High Hampton -	60	25	0	23982
Sheepwash - -	106	26	40	21745
Bradford Steeple -	13	8	20	
Beacon Moor -	29	2	30	39643
Kilkhampton - -	49	49	40	25186
Bradworthy Steeple -	101	7	50	
Holsworthy Steeple -	16	59	30	38603
Pancras Week -	150	56	30	23226
Kilkhampton - -	12	4	0	
Kilkhampton -	124	20	50	13555
Holsworthy Steeple -	13	36	10	47586
Crimp Down East Station	42	3	0	
Kilkhampton -	126	36	0	13538
Holsworthy Steeple	13	6	30	47924
Crimp Down West Station	40	17	30	
Crimp Down East Station	71	28	0	8659
Kilkhampton -	37	14	0	13569
Drake's House -	71	18	0	
Crimp Down West Station	75	14	0	16501
Kilkhampton - -	59	40	40	18485
Tinnacombe Windmill	45	5	20	
Crimp Down East Station	130	12	0	9322
Holsworthy Steeple -	7	34	0	54074
Wooly Down East Station	42	14	0	
Crimp Down East Station	6	24	30	9044
Wooly Down East Station	71	38	10	1064
Wooly Down West Station	101	57	20	
Wooly Down West Station	65	26	30	4008
Crimp Down East Station	26	17	30	8230
Warmington's House	88	16	0	
Crimp Down East Station	41	0	30	31299
Wooly Down East Station	124	50	30	25023
Woolfardisworthy Steeple	14	9	0	
Wooly Down East Station	17	43	0	25717
Woolfardisworthy Steeple	86	9	30	7844
Sir James Hamlin's Lodge	76	7	30	

Names of Stations and intersected Objects	Angles for Calculation.			Distances in Feet.
	°	′	″	
Crimp Down East Station	10	25	5	41224
Woolfardisworthy Steeple	141	7	20	11877
Cross Park -	28	27	35	
Cross Park - -	82	9	30	17513
Woolfardisworthy Steeple	61	19	40	19773
West Putford -	36	30	50	
Belleview - -	37	34	0	63694
Langtree - -	115	40	0	43085
Woolfardisworthy Steeple	26	46	0	
Dunkery Beacon -	39	38	21	24662
Haddon Beacon -	27	47	53	33463
Wembury Barrow -	112	33	46	
Northmolton Ridge -	122	10	20	58014
Span Head - -	43	23	10	71489
Light Hill Barrow -	14	26	30	
Northmolton Ridge	21	52	40	34330
Span Head - -	130	9	30	16738
Barrow West of Dudum	27	57	50	
Northmolton Ridge -	50	0	30	27003
Span Head - -	79	50	10	21018
Ashton Hill - -	50	9	20	
Northmolton Ridge -	34	1	50	29983
Span Head - -	102	42	40	17201
Dudum - -	43	15	30	
Northmolton Ridge -	64	0	40	9789
Span Head - -	27	40	50	18941
Barrow North of the Ridge	88	18	30	
Span Head - -	26	17	0	52579
Northmolton Ridge	138	14	37	34960
Rose Ash Steeple -	15	28	23	
Span Head - -	118	20	54	43651
Northmolton Ridge -	36	31	20	29518
Bishop's Nympton Steeple	25	7	46	
Span Head - -	32	42	18	48027
Northmolton Ridge -	126	42	30	32370
Wembury Barrow -	20	35	2	
Span Head - -	42	56	0	48561
North Molton Ridge -	113	39	25	36111
Mary-Ansleigh Steeple	23	24	35	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Span Head -	63 34 37	59248
Northmolton Ridge	95 42 24	53323
Kingsnympton Spire -	20 42 59	
Haddon Beacon -	30 5 59	96424
Northmolton Ridge	114 55 52	53326
Kingsnympton Spire	34 58 9	
Span Head - -	12 36 27	54855
Northmolton Ridge -	159 45 30	34607
Knowstone Steeple -	7 38 3	
Span Head - -	88 6 28	48537
Northmolton Ridge -	68 8 29	52268
Chittlehampton Steeple	23 45 3	
Span Head - -	70 32 53	50703
Northmolton Ridge -	85 0 20	47992
Saterleigh Gazebo -	24 26 47	
Span Head - -	84 6 54	33015
Northmolton Ridge -	61 42 26	37297
Castle on Castle Hill -	34 10 40	
Northmolton Ridge -	101 18 10	34603
Southmolton Steeple	42 25 0	50306
East Anstey Steeple	36 16 50	
Northmolton Ridge -	26 28 50	36101
Southmolton Steeple -	96 55 50	16216
Mary Ansleigh Steeple	56 35 20	
Span Head -	7 54 40	53197
Southmolton Steeple -	156 12 30	18150
Romansleigh Steeple -	15 52 50	
Beacon Moor - -	67 14 59	57337
Northmolton Ridge -	53 57 27	65393
Cotten Hill - -	58 47 34	
Northmolton Ridge -	27 12 44	55095
Beacon Moor - -	65 10 52	27758
Warkleigh Steeple -	87 36 24	
Northmolton Ridge -	14 14 30	69640
Beacon Moor -	111 47 40	18451
Burrington Steeple -	53 57 50	
Northmolton Ridge -	9 12 10	53316
Beacon Moor -	46 45 16	11706
Kingsnympton Spire -	124 2 34	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Northmolton Ridge -	35 10 16	59195
Beacon Moor -	70 13 20	36235
Witheridge - -	74 36 24	
Beacon Moor -	87 20 26	36244
Span Head - - -	28 13 32	76552
Witheridge - -	64 26 2	
Beacon Moor - -	29 37 50	11709
Span Head - -	5 36 30	59237
Kingsnympton Spire -	144 45 40	
Beacon Moor -	14 36 21	18468
Span Head -	94 40 20	72996
Burrington - - -	70 43 19	
Northmolton Ridge -	9 16 0	46185
Witheridge -	28 39 0	15512
Meshaw Moor -	142 5 0	
Witheridge - -	64 40 10	9419
Beacon Moor -	14 48 20	33316
Thelbridge Steeple -	100 31 30	
Witheridge - -	92 13 0	16709
Thelbridge Steeple -	58 55 0	19496
Barrow on Meshaw Moor	28 52 0	
Witheridge - -	38 51 0	11475
Thelbridge Steeple -	86 10 0	7214
West Worlington Spire	54 59 0	
Witheridge - -	40 11 30	9664
Thelbridge Steeple -	71 55 0	6561
East Worlington Spire	67 53 30	
Beacon Moor - -	39 32 40	27710
West Morchard -	46 5 56	24485
Coleridge Steeple -	94 21 24	
Bradbury Castle -	15 3 30	80625
Beacon Moor -	49 6 0	27712
Coleridge Steeple -	115 50 30	
West Morchard -	9 37 0	13739
Coleridge Steeple -	11 51 0	11177
Lapford Steeple -	158 32 0	
Coleridge Steeple -	46 20 30	18185
Lapford Steeple -	95 58 30	13238
Downe St. Mary -	37 41 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected objects.	Angles for Calculation	Distances in Feet.
	° ″ ′			° ′ ″	
Coleridge Steeple -	8 56 0	6774	Southmolton -	48 11 0	53426
Lapford Steeple -	13 12 0	4607	Cotten Hill - -	77 14 0	40827
Nymett Rowland Steeple	157 52 0		Roborough - -	54 35 0	
Coleridge Steeple -	168 53 30	7341	Cotten Hill - -	33 19 0	40828
Lapford Steeple -	4 24 0	18434	Belleview - - -	96 14 0	22559
Brushford Spire -	6 42 30		Roborough - -	50 27 0	
Lapford Steeple -	12 27 0	28913	Southmolton - -	20 12 0	53459
Coleridge Steeple -	159 55 30	18160	Belleview - -	54 53 0	22567
East Budleigh Steeple -	7 37 30		Roborough - -	104 55 0	
Thelbridge Steeple -	18 53 30	24836	Harwood - -	40 19 0	32799
Beacon Moor - -	39 18 35	12693	Cotten Hill - -	84 30 0	21320
Chawleigh Steeple -	121 47 55		Atherington - -	55 11 0	
Thelbridge Steeple -	11 30 30	33682	Harwood - -	67 46 30	9780
Beacon Moor -	87 19 0	6727	Cotten Hill - -	21 11 30	25046
Chumleigh Steeple -	81 10 30		Alverdiscott Steeple -	91 2 0	
Southmolton -	136 29 0	34332	Parkham - -	15 2 0	44592
Cotten Hill - -	18 46 30	73449	Belleview - -	80 41 0	11721
Molland Down -	24 44 30		Alverdiscott Steeple -	84 17 0	
Southmolton - -	133 46 0	33783	Alverdiscott Steeple -	55 35 0	14914
Cotten Hill - -	19 44 0	72256	Cotten Hill - -	36 31 0	20676
Molland Clump -	26 30 0		Yarnscombe Steeple -	87 54 0	
Southmolton -	2 44 0	33962	Cotten Hill - -	58 46 30	20675
Molland Down -	75 50 0	1670	Beacon Moor - -	20 46 20	49851
Molland Clump -	101 26 0		Yarnscombe Steeple -	100 27 10	
Molland Down -	60 30 0	5731	Northam - -	40 23 0	27601
Molland Clump -	103 0 0	5119	Belleview - -	52 3 0	22678
Twitchen Steeple -	16 30 0		Monkleigh Steeple -	87 34 0	
Southmolton -	104 23 40	15067	Northam - -	66 29 0	28522
Cotten Hill - -	16 47 0	50543	Belleview - -	47 57 0	35221
Northmolton Steeple -	58 49 20		Buckland Brewer -	65 34 0	
Southmolton - -	28 23 30	41281	Northam - -	27 19 0	42490
Cotten Hill - -	67 0 30	21323	Belleview - -	98 7 0	19696
Atherington Steeple -	84 36 0		Little Torrington Steeple	54 34 0	
Southmolton -	5 53 0	26500	Roborough - -	43 58 0	28163
Cotten Hill - -	8 27 0	18485	Belleview - -	83 18 0	19687
Ewsdon Hill -	165 40 0		Little Torrington Steeple	52 44 0	
Southmolten - -	82 45 30	16206	Buckland Brewer -	72 54 0	12689
Cotten Hill - -	20 40 30	45534	Northam - -	26 4 0	27599
Warmford Hill -	76 34 0		Monkleigh Steeple -	81 2 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Langtree - -	43 19 0	17039
Belleview - -	31 2 0	22674
Monkleigh Steeple -	105 39 0	
Little Torrington Steeple	25 30 0	7797
Belleview - -	14 51 0	13097
Great Torrington -	139 39 0	
Buckland Brewer -	17 8 0	25662
Belleview - -	35 15 0	13099
Great Torrington -	127 37 0	
Langtree - -	42 39 0	33227
Belleview - -	71 50 0	23693
Beaford Spire - -	65 31 0	
Roborough -	82 39 0	10648
Belleview - -	26 28 30	23689
Beaford Spire - -	70 52 30	
Cotten Hill - -	46 22 0	30142
Belleview - -	63 31 0	24374
High Bickington -	70 7 0	
Cotten Hill - -	29 6 30	30147
Beacon Moor - -	25 19 30	34284
High Bickington -	125 34 0	
Monkleigh Steeple -	120 4 0	4384
Buckland Brewer -	14 18 0	15361
Frithelstock Steeple -	45 38 0	
Monkleigh Steeple -	96 38 0	10370
Buckland Brewer -	36 34 0	17289
Landcross Steeple -	46 48 0	
Belleview - -	26 53 0	21836
Monkleigh Steeple -	72 2 0	10380
Landcross Steeple -	81 5 0	
Buckland Brewer -	71 24 0	26242
Monkleigh Steeple -	80 9 0	25243
Port Hill House -	28 27 0	
Buckland Brewer -	125 4 30	8699
Monkleigh Seeple -	21 55 30	19066
Alwington Steeple -	33 0 0	
Parkham - -	23 10 0	42370
Northam - -	113 31 0	18178
Horwood Steeple -	43 19 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Northam - -	64 42 0	8894
Horwood Steeple -	29 13 0	16473
Bideford Steeple -	86 5 0	
Parkham - -	22 58 30	38392
Horwood Steeple -	64 53 30	16549
Barrow above Appledore	92 8 0	
Parkham - -	5 35 0	60937
Barrow above Appledore	165 5 0	23032
Braunton Spire -	9 20 0	
Parkham -	41 19 40	36075
Northam - -	117 24 0	7981
Westleigh Steeple -	51 16 20	
Buckland Brewer -	10 17 0	16751
Port Hill House -	17 2 0	10208
Windmill Hill near Bideford	152 41 0	
Windmill Hill - -	68 32 0	8012
Port Hill House -	45 42 0	10411
Abbotsham Steeple -	65 46 0	
Northam - -	12 46 0	12176
Bideford - -	137 56 0	4016
Twelve Acres -	29 18 0	
Twelve Acres - -	36 19 0	38275
Northam - -	129 28 0	29363
Braunton Spire -	14 13 0	
Northam - -	115 3 0	38554
Westleigh Steeple -	55 10 0	42552
Baggy Point - -	9 47 0	
Buckland Brewer -	46 39 0	35911
Northam - -	81 34 0	26399
Alverdiscott Steeple -	51 47 0	
Northam - -	13 45 30	27506
Alverdiscott Steeple -	92 47 0	6549
Newton Tracey -	73 27 30	
Northam - -	94 11 0	27572
Belleview - -	36 38 0	46086
Heanton Punchardon Steeple - -	49 11 0	
Heanton Punchardon -	13 58 30	20075
Cotten Hill - -	19 49 30	14295
Barnstaple Spire -	146 12 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Barnstaple Spire -	157 26 0	3132
CottenHill - -	4 0 0	17228
Pilton Steeple -	18 34 0	
Heanton Punchardon -	34 57 0	10405
Cotten Hill - -	13 43 40	25117
Fremington - -	131 19 20	
Fremington - -	46 46 0	20767
Cotten Hill - -	54 15 0	8643
Roborough - -	78 59 0	
Cotten Hill - -	16 50 20	18620
Pilton Steeple - -	96 13 40	5426
Roborough - -	66 54 0	
Roborough - -	125 42 0	9765
Pilton Steeple -	35 29 0	13661
Goodleigh Steeple -	18 49 0	
Cotten Hill - -	10 48 0	24847
Pilton Steeple - -	147 2 0	8556
Ashford Steeple -	22 10 0	
Span Head - -	31 27 0	54638
Cotten Hill - -	74 20 0	29608
Warkleigh - -	74 13 0	
High Rickington -	72 36 0	16000
Cotten Hill - -	31 3 0	29602
Warkleigh - -	76 21 0	
Paracombe Down -	51 44 31	2314
Cotten Hill -	1 47 9	58316
West Station on the Down	126 28 20	
Cotten Hill -	1 20 30	55056
West Station -	21 29 0	3520
South West Station on Paracombe Down -	157 10 30	
West Station - -	35 33 20	10068
South West Station -	128 35 0	7489
Challacombe Steeple -	15 51 40	
West Station - -	68 44 40	7366
South West Station -	82 56 50	6918
Parracombe Steeple -	28 18 30	
Span Head - - -	28 22 0	16732
Paracombe Down -	39 39 30	12456
Barrow west of Dureham	111 58 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Paracombe Down -	9 5 10	6498
Barrow west of Dureham	9 38 40	6126
Station east of Paracombe	161 16 10	
Paracombe Down -	48 13 20	17215
Station east of Paracombe	111 10 0	13767
Chimney of a Thatched House - -	20 36 40	
Paracombe Down -	31 15 0	162249
Cotten Hill - - -	133 10 50	115428
Hartland Point - -	15 34 10	
Paracombe Down -	4 32 30	62931
Cotten Hill - -	121 9 20	5823
Tawstock Steeple -	54 18 10	
Paracombe Down -	6 24 0	6209
Barrow west of Dureham	6 17 0	6324
Barrow near Longstone	167 19 0	
Paracombe Down -	15 29 10	6211
Station east of Paracombe	72 48 0	1736
Barrow near Longstone -	91 42 50	
Northmolton Ridge -	60 48 23	119590
Paracombe Down -	97 30 7	105301
Cornbury Summer House	21 41 30	
Northmolton Ridge -	59 1 47	180635
Paracombe Down -	107 20 37	162260
Hartland Point -	13 37 36	
Hangman Hill -	42 45 0	30992
Berry Down - -	108 27 0	22177
Slate Down -	28 48 0	
Hangman Hill -	47 0 0	15023
Berry Down - -	63 26 0	12284
Hill west of Berryn Arbor	69 34 0	
Bratton Down - -	7 43 39	34741
Hangman Hill - -	48 26 30	6241
Great Hangman -	123 50 0	
Bratton Down -	6 11 0	41412
Hangman Hill -	120 17 0	5165
Little Hangman -	53 32 0	
Hangman Hill -	8 4 0	22274
Slate Down - -	19 16 30	9469
Helesbarrow - -	152 39 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Helesbarrow - -	10 45 30	6289
Slate Down - -	19 38 0	3494
Ilfracombe Steeple -	149 36 30	
Hangman Hill - -	31 0 0	47890
Paracombe Down - -	101 58 20	25214
Countesbury Steeple -	47 1 40	
Sir Lawrence Palk's Tower	22 26 30	5149
Haldon Old Station -	98 28 30	1987
Haldon New Station -	59 5 0	
Haldon New Station - -	118 39 0	12043
Palk's Tower - -	44 3 20	15199
Pleasure House Hill -	17 17 40	
Haldon New Station -	78 28 10	9294
Palk's Tower - -	70 7 50	9683
Ashwell Hill -	31 24 0	
Haldon New Station -	40 10 40	12042
Pleasure House Hill -	50 30 30	7770
Ashwell Hill -	89 18 50	
Haldon New Station - -	17 59 0	21220
Pleasure House Hill -	141 10 30	10450
Hennock Steeple - -	20 50 30	
Pleasure House Hill - -	90 40 0	10442
Ashwell Hill -	52 55 10	13088
Hennock Steeple -	36 24 50	
Haldon New Station	9 55 40	12058
Pleasure House Hill -	85 27 0	2085
Trusham Steeple -	84 37 20	
Hamilton Tor -	95 42 0	24907
Rippon Tor -	45 41 0	34640
Moreton Hampstead Steeple - -	38 37 0	
Hamilton Tor -	61 50 0	24903
East Down - -	68 48 0	23547
Moreton Hampstead Steeple - -	49 22 0	
Rippon Tor - -	58 39 10	10374
East Down - -	52 0 30	11242
Barrow Hill - -	69 20 20	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Rippon Tor - -	20 54 10	34646
East Down - -	148 20 40	23553
Moreton Hampst. Steeple	10 45 10	
Barrow Hill - -	27 9 10	8078
Rippon Tor - -	49 10 0	4873
A Rock - - -	103 40 50	
Barrow Hill -	42 54 0	5911
Rock - -	47 1 50	5499
Widdecombe Steeple -	90 4 10	
Rippon Tor - -	42 10 0	26233
East Down - -	112 2 0	18997
Bovey Tracey - -	25 48 0	
Denbury - - -	45 28 0	16209
Rippon Tor - -	28 35 0	24149
Hele's Down - -	105 57 0	
Hele's Down - -	77 8 0	16954
Rippon Tor - -	39 3 0	26235
Bovey Tracey - -	63 49 0	
East Down - -	44 42 0	8835
Hamilton Tor -	23 57 0	15309
Manaton Steeple -	111 21 0	
Hele's Down - -	23 25 0	13689
Rippon Tor - -	25 9 0	12801
Islington Steeple -	131 26 0	
Rippon Tor - - -	16 28 0	20280
Denbury - - - -	23 39 0	14330
Cook's Beacon - -	139 53 0	
Cook's Beacon - -	48 9 0	11987
Denbury - - -	54 39 30	10946
Tarcorn - - - -	77 11 30	
Denbury - - -	78 19 30	10952
Rippon Tor - -	19 27 30	32196
Tarcorn - -	82 13 0	
Rippon Tor - -	25 35 20	19377
Brent Ruins - -	15 27 30	31399
Ashburton Steeple -	138 57 10	
Ashburton Steeple -	78 16 10	9983
Rippon Tor - -	29 24 0	19911
Hall's Down - -	72 19 50	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Ashburton Steeple -	37 41 19	10577
Hall's Down - -	75 59 40	6664
Ashburton Down -	66 19 10	
Ashburton Down -	25 6 0	7755
Hall's Down - -	96 14 0	3310
Cook's Beacon -	58 40 0	
Ashburton Down -	53 42 0	17379
Cook's Beacon -	100 15 0	14234
West Ogwell Steeple -	26 3 0	
Ashburton Steeple -	46 51 9	6968
Ashburton Down -	41 10 40	7721
Cook's Beacon - - -	91 58 20	
Ashburton Down -	129 1 10	8532
Cook's Beacon - -	26 51 10	14675
Hallsenger Summer House	24 7 40	
Ashburton Down -	130 49 10	5212
Cook's Beacon -	19 31 0	11807
Hallsenger Farm House	29 39 50	
Hele's Down - -	114 50 0	15263
Rippon Tor - -	24 23 0	33552
Denbury Steeple -	40 47 0	
Denbury - - - -	88 8 0	34045
Tarcorn - - -	73 52 0	35422
Haytor Rock - -	18 0 0	
Cook's Beacon -	126 50 0	23456
Denbury - -	33 28 30	34037
Haytor Rock - -	19 41 30	
Denbury - - - -	167 20 0	16491
Tarcorn - - - -	7 37 0	27282
High Week Steeple -	5 3 0	
Denbury - - - -	98 42 30	8654
Tarcorn - -	34 54 0	14951
Ipplepen Steeple -	46 23 30	
Denbury - - - -	22 34 0	8921
Tarcorn - - - -	51 36 0	4369
Broad-Hempston Steeple	105 50 0	
Cook's Beacon -	35 8 0	15114
Denbury - -	77 14 30	8918
Broad-Hempston Steeple	67 37 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Cook's Beacon -	20 8 0	6748
Denbury - - - -	16 12 10	8324
Woodland Steeple - -	143 39 50	
Denbury - - -	38 28 20	8321
Tarcorn - - -	49 24 0	6818
Woodland Steeple - -	92 7 40	
Denbury - - -	55 5 20	28263
Tarcorn - - - -	102 42 0	23758
Hazewell Rock -	22 12 40	
Rippon Tor -	59 15 50	12962
Denbury - -	23 14 10	28240
Hazewell Rock - -	97 30 0	
Denbury - - -	78 56 10	9916
Cook's Beacon - -	38 4 0	15784
Hobbin Wood's Gazebo	62 59 50	
Cook's Beacon -	60 31 0	17385
Denbury - -	69 7 10	16198
Hele's Down - -	50 21 50	
Cook's Beacon -	22 27 50	15801
Hele's Down - -	65 14 50	6648
Hobbin Wood's Gazebo	92 17 20	
Tarcorn - - -	35 47 30	19958
Rippon Tor - -	36 5 50	19811
Bickington Steeple -	108 6 40	
Cook's Beacon -	32 5 0	4889
Tarcorn - -	18 19 0	8263
Hele's House - -	129 36 0	
Tarcorn - - - -	87 15 0	9762
Rippon Tor - -	17 5 0	33192
Buckfastleigh Station -	75 40 0	
Rippon Tor - -	10 52 40	29620
Buckfastleigh - -	53 42 20	6935
Buckfastleigh Spire -	115 25 0	
Cook's Beacon -	53 10 0	32799
Denbury - -	101 29 0	26788
Totness Steeple - -	25 21 0	
Totness Steeple - -	85 10 10	7446
Marldon Beacon -	21 50 20	19945
Dartington Steeple -	72 59 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
Totness Steeple -	112 4 0	7435	Horner Down -	22 44 0	25543
Willman Hill - -	19 2 30	21121	Square Close - -	124 29 0	11975
Dartington Steeple -	48 53 30		Rattery Spire - -	32 47 0	
Totness Steeple -	75 4 50	4168	Station near Totness -	73 12 40	9016
Willman Hill - -	14 2 40	16594	Flap Park - -	41 44 30	12965
Station South of Totness	90 52 30		Station near Harberton	65 2 50	
Station South of Totness	97 25 10	12278	Horner Down -	98 1 0	34511
Willman Hill - -	33 48 50	21882	Square Close - -	57 42 50	40424
Flap Park - -	48 46 0		Willman Hill - -	24 16 10	
Totness Steeple -	114 43 10	8143	Moreleigh -	30 47 10	22822
Willman Hill -	19 46 20	21866	Horner Down -	133 42 50	16161
Flap Park - -	45 30 30		Harberton Steeple -	15 30 0	
Totness Steeple -	97 15 20	8818	Moreleigh -	30 20 10	6623
Station near Totness -	58 53 10	10217	Horner Down -	50 52 0	4313
Berry Pomeroy Steeple -	23 51 30		Moreleigh Steeple -	98 47 50	
Totness Steeple -	150 58 0	7853	Moreleigh - -	78 16 28	11261
Station near Totness -	19 3 30	11672	Higher East Close -	30 7 52	21966
Little Hempston Steeple	9 58 30		Wallaton Cross -	71 35 40	
Willman Hill - -	109 59 10	19550	Higher East Close -	79 54 20	15761
Marldon Beacon - -	50 8 30	23934	Wallaton Cross - -	38 56 20	24690
Churston Ferrers Steeple	19 52 20		Stoke Fleming Steeple	61 9 20	
Willman Hill -	105 53 0	26722	Horner Down -	10 6 30	31482
Marldon Beacon -	58 8 40	30260	Higher East Close -	134 13 30	7711
Windmill near Brixham	15 58 20		Station near Dittesham	35 40 0	
Willman Hill -	111 48 40	26589	Higher East Close -	12 38 20	10754
Marldon Beacon -	53 5 50	30870	Station near Dittesham	139 46 50	3644
Brixham Steeple -	15 5 30		Station near Dartmouth	27 34 50	
Willman Hill - -	159 5 40	14686	Station near Dartmouth	93 13 0	7730
Marldon Beacon -	13 10 50	22982	Station near Dittesham	62 9 0	8729
Dittesham Steeple -	7 43 30		Townstall Steeple -	24 38 0	
Willman Hill -	159 23 30	15063	Higher East Close -	55 35 0	10341
Marldon Beacon -	13 7 0	23366	Station near Dittesham	77 39 40	8732
Cornworthy Steeple -	7 29 40		Townstall Steeple -	46 45 20	
Totness Steeple -	78 38 50	10331	Higher East Close -	42 56 50	10335
Marldon Beacon -	30 37 40	19881	Station near Dartmouth	65 38 10	7730
Warden House -	70 43 30		Townstall Steeple -	71 25 0	
Horner Down - -	59 27 0	16779	Station near Dittesham	47 31 50	14907
Denbury - -	18 51 10	44717	Station near Dartmouth	120 17 0	12734
Square Close - -	101 41 50		Dartmouth Castle -	12 11 10	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Moreleigh -	109 6 40	11198
Butterton Hill -	12 6 30	50445
East Allington Steeple	58 46 50	
Horner Down - -	34 23 20	15746
Church Stowe Steeple	25 57 0	20325
Black Down - -	119 39 40	
Butterton Hill -	8 51 4	63999
Church Stowe -	150 37 50	20078
Malborough Spire -	20 31 6	
Butterton Hill -	41 50 20	19635
East Beacon - -	127 27 50	16501
North Huish -	10 41 50	
Barrington - -	57 55 20	2069
Hemerdon Ball -	8 1 0	12570
Plympton St. Mary Steeple	114 3 40	
Barrington - -	33 15 0	2536
Hemerdon Ball -	6 56 20	11509
Plympton Steeple -	139 48 40	
Barrington - -	48 48 10	24366
Hemerdon Ball -	97 46 30	18504
Shaugh Steeple -	33 25 20	
Barrington - -	66 59 0	22405
Hemerdon Ball -	76 56 10	21169
Bickleigh Steeple -	36 4 50	
Barrington - -	165 37 40	11256
Hemerdon Ball	6 31 10	24609
Plympstock Steeple -	7 51 10	
Barrington -	153 39 10	14950
Station South of Yealmpton	10 23 50	36764
Eggbuckland Steeple	15 57 0	
Newton Down -	69 20 10	9020
Station South of Yealmpton	51 23 40	10726
Brixton Steeple -	58 46 10	
Newton Down - -	28 49 20	12108
StationSouth of Yealmpton	97 51 20	5892
Yealmpton Steeple -	53 19 20	
StationSouth of Yealmpton	104 19 20	17572
Barrington - -	32 7 50	32014
Gonnor Signal Staff -	43 32 50	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
StationSouth of Yealmpton	38 15 50	17578
Newton Down -	110 10 20	11596
Gonnor Signal Staff	31 33 50	
Gonner Down - -	26 5 10	9093
West Down - - -	130 39 30	5271
Wembury Steeple -	23 15 20	
Gonnor Down -	122 55 50	4195
West Down -	26 39 30	7847
Newton Ferrers Steeple	30 24 40	
East Beacon -	49 32 40	11952
Rippon Tor - -	9 56 0	52722
Three Barrow Tor -	120 31 20	
Three Barrow Tor -	33 16 0	5305
East Beacon -	21 9 50	8060
Stall Beacon -	125 34 10	
Three Barrow Tor - -	130 35 30	9275
East Beacon - -	21 23 0	19317
White Barrow -	28 1 30	
Slopstor - -	45 57 40	14855
Hessary Tor - -	62 59 40	11985
Vixen Tor - -	71 2 40	
Station above Pen Beacon	69 50 30	6123
Barrington -	10 32 40	31413
Highest point of the Ridge of Rocks West of Pen Beacon - -	99 36 50	
Barrington -	121 50 0	4215
Hemerdon Ball -	12 47 40	16170
Clarke's Gazebo -	45 22 20	
Hemerdon Ball -	73 45 27	19890
Station above Pen Beacon	52 16 20	24143
Ivy Bridge Race-house	53 58 13	
Hemerdon Ball - -	73 31 10	28844
Station above Pen Beacon	66 16 40	30211
Roborough Clump -	40 12 10	
Rippon Tor -	8 56 0	39365
Ryders Hill -	118 13 50	6938
Knot Barrow - -	52 50 10	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
Ryder's Hill -	4 42 30	23180	Cawsand Beacon -	30 13 40	28367
Hessary Tor - -	12 47 40	8592	Castor Rock -	107 36 0	14982
Tor Royal Flagstaff -	162 29 50		Siddaford Tor -	42 10 20	
Ryder's Hill - -	16 23 50	27694	Cawsand Beacon -	29 29 10	25103
Hessary Tor - -	57 51 20	9233	Castor Rock -	98 36 50	12497
Bare Down Chapel -	105 44 50		Chagford Steeple -	51 54 0	
Hessary Tor - -	96 31 20	20450	Cawsand Beacon -	24 58 30	42256
Ryder's Hill - -	31 0 30	39439	Castor Rock - -	135 46 0	25576
Beeryonder Tor -	52 28 10		North Bovey Steep le	19 15 30	
Hessary Tor - -	13 6 20	20456	Cawsand Beacon -	17 53 20	15341
Cut Hill - - -	27 58 20	9889	Castor Rock -	41 13 0	7152
Beeryonder Tor -	138 55 20		Gidley Steeple -	120 53 40	
Ryder's Hill - -	45 51 40	24680	Cawsand Beacon -	46 14 20	10386
Hessary Tor - -	51 5 50	22759	Castor Rock -	30 22 50	14832
Bellever Tor - -	83 2 30		Throwley Steeple -	103 22 50	
Ryder's Hill - -	34 39 30	33870	Oakhampton Park -	108 43 0	6226
Hessary Tor - -	79 21 20	19598	Tes Tor - -	21 8 20	16351
Littlever Tor - -	65 59 10		Oakhampton Steeple -	50 8 40	
Rippon Tor -	38 58 20	20409	Oakhampton Park -	30 35 0	21933
Cut Hill - - -	18 35 0	40280	Tes Tor - -	116 46 0	12499
Quarnion Tor - -	122 26 40		Sourton Tor -	32 39 0	
East Down - -	32 23 10	29737	Sourton Tor -	49 6 0	21541
Rippon Tor - -	128 46 30	20430	Tes Tor - -	95 37 50	16361
Quarnion Tor -	18 50 20		Oakhampton Steeple -	35 16 10	
Cocks Tor - -	36 45 20	10686	Brent Tor -	39 19 30	38883
Hessary Tor - -	36 58 10	10633	Black Down -	127 52 0	31213
Great Mis Tor - -	106 16 30		Sourton Tor - -	12 48 30	
Cut Hill - - -	79 47 0	11509	Black Down - -	15 44 0	11838
Beeryonder Tor -	55 17 0	13779	Sourton Tor -	9 12 0	20077
Siddever Tor - -	44 56 0		Lydford Steeple -	155 4 0	
Cocks Tor - -	41 29 50	21394	Black Down - -	5 10 0	31699
Hessary Tor - -	85 50 0	14212	Sourton Tor - -	97 8 0	2877
Peak Beacon -	52 40 10		Sourton Steeple -	77 42 0	
Cut Hill - -	48 7 10	10999	Sourton Tor - -	87 58 0	20071
Tes Tor - -	24 52 30	19469	Sourton Steeple - -	83 50 30	20178
Hewdeck Staff -	107 0 20		Lydford Steeple - -	8 11 30	
Cut Hill - - -	36 31 0	20411	Sourton Tor - -	39 31 40	9805
Tes Tor - -	54 41 50	14883	Sourton Steeple -	126 54 10	7804
Great Links Tor -	88 47 10		Bridestow Steeple -	13 34 10	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Black Down - -	12 36 0	11526
Cocks Tor - -	18 55 50	7750
St. Peter Tavy Steeple -	148 28 10	
Black Down - -	14 56 10	8078
Cocks Tor - -	10 56 10	10974
St. Mary Tavy Steeple -	154 7 40	
Morwell Down - -	16 5 40	27084
Cocks Tor - -	75 22 30	7760
St. Peter Tavy Steeple -	88 31 50	
Morwell Down - -	22 12 50	28856
Cocks Tor - -	83 22 10	10983
Mary Tavy Steeple -	74 25 0	
Morwell Down - -	20 1 20	11921
Cocks Tor - -	13 40 10	17271
Tavistock Steeple -	146 18 30	
Cocks Tor - -	32 9 0	29999
Leather Tor - -	101 32 50	16294
Hurlstone Rock -	46 18 10	
Hurlstone Rock - -	36 20 50	18490
Leather Tor - -	82 42 50	11048
Sampford Spiney Steeple	60 56 20	
Hurlstone Rock -	27 40 10	14719
Leather Tor - -	64 31 0	7572
Sheepstor Steeple -	87 48 50	
Leather Tor - -	68 56 50	11051
Hessary Tor - -	41 8 10	15678
Sampford Spiney Steeple	69 55 0	
Hurlstone Rock -	20 33 10	12007
Leather Tor - -	39 50 50	6579
Walkhampton Steeple -	119 36 0	
Cocks Tor -	16 55 50	19882
Leather Tor -	61 42 0	6576
Walkhampton Steeple -	101 22 10	
Leather Tor -	4 57 0	16097
Hurlstone Rock -	79 31 0	1412
Hurlstone Station -	95 32 0	
Hurlstone Rock -	47 1 10	8181
Hurlstone Station -	124 50 0	7292
Meavy Steeple -	8 8 50	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Hurlstone Station -	28 5 0	13890
Leather Tor - -	59 34 0	7584
Sheepstor Steeple - -	92 21 0	
Cocks Tor - -	115 4 50	16769
Hessary Tor - -	32 9 0	28541
Whitchurch Steeple -	32 46 10	
Morwell Down - -	13 38 40	11785
Cocks Tor - -	9 32 50	16765
Whitchurch Steeple -	156 48 30	
St. Budeaux - -	74 53 10	11945
Kit Hill - -	14 35 50	45754
Stray Hill - -	90 31 0	
Stray Hill - -	15 27 0	6432
St. Budeaux - -	16 36 40	5994
Witley - -	147 56 20	
Stray Hill - -	4 20 0	5123
Witley - -	16 17 30	1380
Tamerton Foliot Steeple	159 22 30	
Stray Hill - -	100 12 10	8098
Witley -	45 22 20	11198
Beere Ferris Steeple -	34 25 30	

Triangles for the Survey of Cornwall.

Stray Hill - -	42 29 0	15625
St. Budeaux -	87 43 0	10561
Landulph -	49 48 0	
Kit Hill - -	28 46 40	181
St. Stephen's -	0 5 45	52081
Kit Hill New Station -	151 7 35	
Kit Hill New Station -	8 16 10	37501
St. Stephen's -	19 48 50	15913
Bare Head -	151 55 0	
Bare Head - -	82 25 10	29481
St. Stephen's -	67 38 10	31600
Bradwood Widger Steeple	29 56 40	
Bare Head - -	101 35 0	30888
St. Stephen's -	53 50 20	37478
Stowford Steeple -	24 34 40	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Bare Head - -	158 28 0	11399
St. Stephen's - -	8 58 0	26844
Bradstone Steeple -	12 34 0	
Bare Head - -	144 35 10	15118
St. Stephen's -	17 14 20	29562
Kelley Steeple - -	18 10 30	
Bare Head - -	146 32 10	26930
St. Stephen's - -	21 9 10	41151
Stoke Clymesland Steeple	12 18 40	
Bare Head - -	63 29 10	25319
St. Stephen's - -	78 30 0	23120
Lewannick Steeple -	38 0 50	
Kit Hill - -	26 14 20	44677
St. Stephen's -	58 42 10	23116
Lewannick Steeple -	95 3 30	
Kit Hill -	31 54 40	59699
St. Stephen's - -	87 27 0	31588
Bradwood Widger Steeple	60 38 20	
Kit Hill - -	1 8 20	49881
St. Stephen's -	24 9 10	2423
St. Stephen's Steeple	154 42 30	
Kit Hill New Station -	40 42 30	11560
Brent Tor - - -	12 19 20	35330
Calstone Down -	126 58 10	
Kit Hill New Station -	93 12 40	35363
Calstone Down -	69 1 0	37814
Landrake Steeple -	17 46 20	
Kit Hill New Station -	97 16 30	36577
Calstone Down -	65 57 0	39732
Lawhitton Steeple -	16 46 30	
Kit Hill New Station -	86 38 0	26006
Calstone Down -	68 52 10	27832
Dunterton Steeple -	24 29 50	
Kit Hill New Station -	112 40 20	11029
Calstone Down -	32 46 0	18803
Stoke Clymesland Steeple	34 33 40	
Kit Hill New Station -	50 49 20	18946
Calstone Down -	91 35 30	14692
Sydenham Steeple -	37 35 10	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Kit Hill New Station -	34 18 30	31245
Calstone Down -	128 58 20	22653
Lamerton Steeple - -	16 43 0	
Kit Hill New Station - -	83 54 0	12900
Calstone Down -	51 32 10	16381
Beverton Down - -	44 33 50	
Beverton Down -	150 1 20	22735
Calstone Down -	17 28 50	37821
Landrake Steeple - -	12 30 0	
Beverton Down - -	36 5 50	19058
Calstone Down -	85 0 0	11271
Calstone Steeple - -	58 54 10	
Beverton Down - -	83 32 0	23498
Kit Hill New Station -	66 17 30	25501
St. Ive Steeple - -	30 10 30	
Kit Hill Old Station -	29 11 14	25390
Carraton Hill -	47 42 50	16736
St. Ive Steeple - -	103 5 56	
Beverton Down - -	78 1 0	43303
Kit Hill New Station -	84 43 40	42539
St. Cleer Steeple -	17 15 20	
Beverton Down - -	35 52 30	23897
Kit Hill New Station - -	114 46 40	15424
South Hill Steeple -	29 20 50	
Kit Hill Old Station -	19 31 2	19522
Carraton Hill - -	15 22 32	15494
South Hill Steeple -	145 6 26	
Beverton Down -	40 49 50	46472
Kit Hill New Station -	126 1 50	37699
North Hill - -	12 58 20	
Beverton Down -	146 59 50	11106
Kit Hill New Station -	15 14 0	23023
Pillaton Steeple -	17 46 10	
Kit Hill New Station -	21 27 0	21217
Calstone Down - -	136 32 20	11280
Calstone Steeple - -	22 0 40	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Liskeard Steeple from Bindown 22885 feet.		
Liskeard Steeple - -	° ′ ″ 36 19 40	12391
Bindown - -	29 38 20	14844
St. Kean Steeple - -	114 2 0	
Liskeard Steeple -	37 33 0	17888
Bindown - -	51 23 50	13950
Centre of Coldrinick House	91 3 10	
St. Cleer Steeple - -	21 50 0	13949
Bindown - -	48 12 56	27967
Coldrinick House - -	109 57 4	
Liskeard Steeple - -	26 36 30	13979
Bindown - -	31 5 0	12127
Clicker Tor - - -	122 18 30	
Liskeard Steeple -	20 1 45	13953
Menhiniott Steeple -	59 11 20	4873
Clicker Tor - -	100 46 55	
Liskeard Steeple -	34 1 40	13800
St. Cleer Steeple -	82 23 24	7791
East Chimney of Fosnooth House - - -	63 34 56	
Liskeard Steeple -	118 44 40	13790
St. Kean Steeple -	32 26 20	23055
Fosnooth House -	28 49 0	
St. Cleer Steeple -	33 30 30	31869
Liskeard Steeple -	128 43 4	22548
Padderbury Beacon -	17 46 16	
Liskeard Steeple -	42 15 0	16359
Bindown New Station -	67 52 0	22538
Padderbury Beacon -	69 52 40	

N. B. In the last Triangle the distance between Liskeard Steeple and Bindown New Station is taken at 22845 feet.

Duloe - - -	27 56 0	20805
Bindown Old Station -	116 22 0	10877
Penhale Signal Staff -	35 42 0	
Liskeard Steeple -	42 16 0	23776
St. Cleer Steeple -	107 46 24	16793
Berry Down - -	29 57 36	

Names of Stations and intersected objects.	Angles for Calculation	Distances in Feet.
	° ′ ″	
Bindown -	14 59 12	27865
St. Cleer Steeple -	40 51 30	11012
Turret on the West end of Trengrobe House	124 9 28	
Carradon Hill -	59 33 13	25594
Liskeard Steeple -	68 19 0	23743
Berry Down - -	52 7 47	
St. Cleer - -	47 9 0	23739
Bindown - -	42 19 27	25848
Quethiock Steeple -	90 31 33	
Carradon Hill -	37 28 52	37353
Kit Hill - -	80 32 43	23041
Pillaton Steeple -	61 58 25	
Carradon Hill - -	28 16 52	25330
Kit Hill - -	47 11 4	16361
Cadson Bury - -	104 32 4	
Carradon Hill - -	48 27 37	47177
Kit Hill - -	86 31 43	35377
Landrake Steeple -	45 0 40	
Kit Hill - - -	30 21 40	39148
Landrake Steeple -	85 23 0	19851
Padderbury Beacon -	64 15 20	
Padderbury Beacon -	50 24 30	8510
Landrake Steeple -	24 26 30	15849
Tree near Trerule Foot	105 9 0	
Landrake - - -	52 12 0	9961
Trerule-Tree -	38 56 0	12525
Ways Wandra House -	88 52 0	
St. Stephen's Down - -	18 41 30	29426
Kit Hill - - -	21 9 35	26126
Dunterton Steeple -	140 8 55	
St. Stephen's Down -	58 42 7	22966
Kit Hill - - -	25 57 32	44833
Lewannick Steeple -	95 20 21	
Bindown - - -	52 28 0	10465
Penhale Signal Staff -	65 58 0	9436
St. Martin's Steeple -	61 34 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ″ ′	
Bindown - -	42 44 0	11698
St. Martin's Steeple -	76 44 0	8156
West Chimney of Trevory Farm House -	60 32 0	
Bindown - -	91 59 11	24932
St. Cleer Steeple -	34 36 0	43780
Summer Lane Head -	53 24 49	
Bindown - -	25 10 30	25510
Landrake Steeple -	46 31 18	14954
Clump of Trees near Polbathick - -	108 18 12	
Bindown - -	47 56 0	22448
Landrake Steeple -	42 16 0	24777
St. German's Beacon -	89 48 0	
Bindown - -	11 27 30	23611
St. German's Beacon -	98 25 0	4742
St. Winnowe Steeple -	70 7 30	
St. German's Beacon -	51 48 30	25987
Bindown - -	72 39 0	21390
House on Looe Island -	55 32 30	
Bindown - -	24 51 30	14980
St. German's Beacon -	35 25 0	10866
Penhale Signal Staff -	119 43 30	
Bindown - -	42 55 30	37087
Liskeard Steeple -	99 36 0	25617
Broad Oak Station -	37 28 30	
Liskeard Steeple -	28 7 0	26854
Broad Oak Station -	81 35 0	12793
Bury Hill Beacon -	70 18 0	
Liskeard Steeple -	117 29 52	26816
St. Cleer Steeple -	43 44 50	34400
Bury Hill Beacon -	18 45 18	
Lansallos Station -	87 9 0	12077
Boconnoc Obelisk -	21 43 0	30886
Lantaglos Barrow -	71 8 0	
Lansallos - -	49 48 0	12072
St. Veep Steeple -	49 10 0	12188
Lantaglos Barrow -	81 2 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ″ ′	
Lansallos - -	59 40 0	8059
St. Veep Steeple -	30 45 0	13605
Gate near Pencarrow Point		
St. Veep Steeple -	86 4 0	11951
Lantaglos Barrow -	46 22 0	16474
House at Castle Dor -	47 34 0	
St. Veep Steeple -	41 56 0	22054
Lantaglos Barrow	105 58 30	15330
Greber Head Signal Staff	32 5 30	
St. Veep Steeple -	38 29 10	12313
Greber Head Signal Staff	31 40 32	14593
Castle Dôr Station -	109 50 18	
Greber Head -	18 20 0	14558
Lanlivery - -	14 58 0	17731
Castle Dôr - -	146 42 0	
Greber Head - -	38 35 0	13571
Castle Dôr - -	64 53 30	9347
Warehouse on Par Sands	96 31 30	
Greber Head - -	37 25 0	19024
Castle Dôr - -	92 39 0	11572
St. Blazey Steeple -	49 56 0	
Castle Dôr - -	27 46 0	9316
St. Blazey Steeple -	52 31 0	5469
Par Sands Warehouse -	99 43 0	
Greber Head -	40 50 0	23127
Castle Dôr -	100 56 30	15402
Prideaux Warren Steeple	38 13 30	
Greber Head -	115 13 0	19800
Castle Dôr - -	37 54 0	29161
Black Head - -	26 53 0	
Greber Head -	17 13 0	27423
Prideaux Warren -	110 42 0	8677
Carngrey Rock -	52 5 0	
Prideaux Warren -	86 28 0	8080
Carngrey Rock -	44 40 0	11472
Luxulian Steeple -	48 52 0	
Prideaux Warren -	61 32 0	13896
Luxulian Steeple -	83 12 0	12302
Barrow on Carleddon Down	35 16 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet
	° ′ ″	
Bodmin Down -	43 41 0	18889
Lanlivery Steeple -	36 12 0	22090
The Highest Barrow on Four Barrow Hill -	100 7 0	
Bodmin Down -	37 33 0	10339
Lanlivery Steeple -	15 8 30	24126
Bodmin Beacon -	127 18 30	
Bodmin Down - -	81 14 0	10297
Four Barrow Hill -	30 30 0	20097
Bodmin Beacon -	68 16 0	
Bodmin Down - -	45 21 0	9076
Four Barrow Hill -	27 18 0	14079
Castle Kenyoc -	107 21 0	
Four Barrow Hill -	45 11 30	8729
Lanlivery Steeple -	21 14 0	17099
St. Nighton Station -	113 13 30	
Four Barrow Hill -	37 45 30	16580
Lanlivery Steeple -	48 30 0	13586
St. Winnow Station -	93 44 30	
Lanlivery Steeple -	27 16 0	13558
St. Nighton Station -	50 54 0	8003
St. Winnow Station -	101 50 0	
St. Winnow Station -	47 59 0	9614
St. Nighton Station -	77 38 0	7314
Restormel Castle -	54 23 0	
St. Winnow Station -	77 18 0	6089
St. Nighton Station -	41 43 0	8927
Lestwithiel Steeple -	61 1 0	
Bodmin Down -	59 13 0	24743
Four Barrow Hill -	73 40 30	22150
Helmen Tor - -	47 6 30	
Bodmin Down - -	93 17 0	25583
Four Barrow Hill -	51 26 50	32659
Lanivet Station -	35 16 10	
Bodmin Down -	12 59 0	6716
Bodmin Beacon -	21 41 0	4084
Bury Tower - -	145 20 0	
Bodmin Down -	40 34 0	22332
Four Barrow Hi -	82 27 0	14650
Chimney of Turnpike House	56 59 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ″ ′	
Bodmin Down -	111 27 0	6333
Four Barrow Hill -	15 32 0	22009
Council Barrow -	53 1 0	
Bodmin Down -	81 42 0	13511
Four Barrow Hill -	38 17 0	21580
St. Belermine's Tor -	60 1 0	
Bodmin Down -	56 24 46	21923
Four Barrow Hill -	69 41 0	19475
Warleggon Church -	53 54 14	
Bodmin Down -	134 13 54	21951
Hensbarrow - -	14 5 36	64594
Warleggon Church -	31 40 30	
Bodmin Down -	46 36 0	28009
Four Barrow Hill -	91 0 0	20354
Direction Post, Crowland Cross -	42 24 0	
Bodmin Down -	78 21 33	21810
Lanivet Station -	45 14 30	30082
St. Mabyn Steeple -	56 23 57	
Bodmin Down -	93 49 15	21786
Hensbarrow - -	24 1 0	53413
St. Mabyn Steeple -	62 9 45	
Bodmin Down -	42 44 0	29320
Bodmin Beacon -	119 26 0	22852
Barrow on St. Breock's Down - -	17 50 0	
St. Mabyn's Steeple -	42 48 0	25406
Brownwilly - -	33 49 0	31017
St. Teath Steeple -	103 23 0	
Hensbarrow - -	8 42 45	63990
St. Mabyn Steeple -	135 19 36	13787
St. Kew Steeple -	35 57 41	
Bodmin Down -	144 58 39	28794
Hensbarrow -	13 7 5	72818
St. Bruard Steeple -	21 54 16	
Hensbarrow - -	4 17 46	65623
St. Mabyn Steeple -	157 42 24	12958
St. Tudy Steeple -	17 59 50	
Hensbarrow - -	6 34 56	86530
Cadon Barrow -	31 47 57	18824
St. Advent Steeple -	141 37 7	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
St. Bruard Steeple - -	12 13 0	19403	Brownwilly - -	36 9 0	17123
Brownwilly - -	53 49 0	5087	Tober - - -	116 16 0	11250
Rough Tor -	113 58 0		Brocha Barrow -	27 35 0	
St. Bruard Steeple -	71 36 0	28682	Brownwilly - -	24 2 0	17101
Brownwilly - -	64 37 0	30124	Tober - - -	134 13 0	9718
Carburrow - -	43 47 0		Four-holes Cross -	21 45 0	
St. Bruard Steeple -	45 15 0	15642	Carradon Hill - -	105 49 10	26198
Brownwilly - - -	45 24 0	15601	Bindown - -	26 54 0	55710
Ox Tor - - -	89 21 0		Brown Gilley -	47 16 50	
St. Bruard Steeple -	19 26 0	25692	Brownwilley - -	24 0 0	26810
Brownwilly - - -	104 49 0	8842	Carradon Hill - -	24 40 0	26120
Tober - - -	55 45 0		Brown Gilley - -	131 20 0	
St. Bruard Steeple -	37 57 30	11161			
Tober - -	22 7 0	18234			
Carbilley Tor - -	119 55 30				

ART. V. *Secondary Triangles for the Survey of the Western Part of Cornwall, Plate V.*

The Distances serving as Base Lines to the following Triangles are,

Pertinney to	Sennen - -	17520 feet
	Karnminnis -	41407
Karnbonellis to	Deadman - -	101084
	St. Erme Steeple -	66303
	Karnminnis - -	71578
St. Agnes to	Hensbarrow - -	97085
	Karnminnis -	84610
Hensbarrow to	St. Dennis Steeple -	15359
	St. Cubert Spire -	69141
	Deadman Signal Staff	59696
	St. Breoc Stone -	56571
Lansallos to Bodmin Down	-	61497

Pertinney -	66 25 30	12751	Pertinney -	127 45 0	6090
Sennen Steeple -	43 15 25	17054	Sennen Steeple -	12 46 10	21788
St. Buryan Steeple -	70 19 5		Karngewney Station -	39 28 50	
Pertinney - -	17 8 0	20077	Pertinney - -	21 55 0	26433
Sennen Steeple -	105 44 0	6145	Sennen Steeple -	125 22 0	12099
Bajester, New House -	57 8 0		Karnkinnejack Rock -	32 43 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Pertinney - -	14 46 10	24851
St. Buryan Steeple -	150 41 0	112937
Titterdieu Signal Staff -	14 33 0	
Sennen Steeple - -	14 27 0	16284
St. Buryan Steeple - -	72 27 0	4262
Lear Farm - -	93 6 0	
Sennen Steeple -	42 59 0	17512
St. Buryan Steeple -	70 26 0	12671
Pertinney Fire Beacon -	66 35 0	
Sennen Steeple - -	79 52 0	12857
St. Buryan Steeple -	40 33 0	19468
Levan Signal Staff - -	59 35 0	
Sennen Steeple -	130 49 0	5632
St. Buryan Steeple -	11 37 0	21169
Pendennick Signal Staff	37 34 0	
St. Buryan Steeple -	98 29 0	12944
Levan Signal Staff -	30 55 0	24918
Titterdieu Signal Staff -	50 36 0	
St. Buryan Steeple -	8 32 0	11192
Levan Signal Staff -	11 11 0	8562
Tredrinnon Farm -	160 17 0	
Sennen Steeple - -	50 57 0	5641
Levan Signal Staff -	25 13 0	10283
Pendennick Signal Staff	103 50 0	
Sennen Steeple -	82 22 0	4920
Levan Signal Staff -	21 47 0	13141
Stone, Land's End -	75 51 0	
Levan Signal Staff -	5 14 0	12790
Stone, Land's End -	70 53 0	1234
Arm andKnight's,Land'sE	103 53 0	
Sennen Steeple -	93 47 0	19173
Stone, Land's End -	72 5 0	20107
The Sisters - -	14 8 0	
Pertinney - -	16 14 0	35000
Karnminnis -	51 25 40	12515
Rogers Tower, Castle Dennis - -	112 20 20	
Pertinney - -	48 4 0	68826
Karnminnis - -	95 7 10	51406
Tregonning Signal Staff	36 48 50	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Pertinney - - -	9 10 0	24592
Karnminnis - -	12 53 0	17571
Barrow near Karn Galver	157 57 0	
Pertinney -	0 7 30	41469
Karnminnis - - -	124 29 0	109
Karn of Stones near Karnminnis - -	55 23 30	
Pertinney - - -	9 10 0	24593
Karnminnis - -	12 53 0	17571
Karn near Karn Galver	157 57 0	
Pertinney - - -	13 20 0	38243
Rogers Tower -	104 5 0	9093
Ludgvan Steeple - -	62 35 0	
Pertinney - -	68 14 30	12113
Rogers Tower - -	20 14 30	32517
Karnkinnejack Rock -	91 31 0	
Pertinney -	36 14 0	22578
Rogers Tower -	38 29 0	18678
Chume Hill middle Karn	105 17 0	
Pertinney - -	20 1 0	21228
Rogers Tower -	25 46 0	16715
Steam Engine, Chume Hill	134 13 0	
Pertinney - -	14 31 40	27307
Rogers Tower -	38 39 0	10968
Mulfra Cromleche -	126 49 20	
Pertinney - -	29 26 0	39347
Rogers Tower -	87 50 0	19349
St. Michael's Mount -	62 44 0	
Pertinney -	21 39 0	22565
Mulfra Cromleche -	52 44 0	10461
Chume Hill Karn -	105 37 0	
Pertinney - -	86 38 0	12749
Ludgvan Steeple -	18 45 0	39595
St. Buryan Steeple -	74 37 0	
Pertinney - -	36 20 0	24067
Ludgvan Steeple -	37 6 0	23640
St. Paul's Steeple -	106 34 0	
St. Buryan - -	23 28 0	18717
Ludgvan Steeple -	18 23 0	23633
St. Paul's Steeple -	138 9 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
St. Buryan Steeple - -	67 55 0	12445
St. Paul's Steeple -	39 26 0	18171
Beacon Hill Karn - -	72 39 0	
St. Buryan Steeple -	8 52 0	12541
Beacon Hill Karn -	88 6 0	1934
St. Creed Steeple -	83 2 0	
Ludgvan Steeple - -	50 46 0	10907
St. Paul's Steeple - -	26 47 0	18749
St. Michael's Mount -	102 27 0	
Ludgvan Steeple - -	61 45 0	9023
St. Paul's Steeple -	22 19 0	20933
Marazion Staff - -	95 56 0	
Ludgvan Steeple -	77 7 0	15561
St. Paul's Steeple -	36 57 0	25235
Perran St. Uthnoe Steeple	65 56 0	
Ludgvan Steeple -	72 22 30	23052
St. Paul's Steeple -	52 50 0	27570
Caddan Point - -	54 47 30	
Pertinney - - -	39 51 0	10267
Karngewney - -	105 14 0	6818
St. Just Steeple -	34 55 0	
Pertinney - - -	49 6 0	9286
Karngewney - -	89 55 0	7019
Karnbesavern - -	40 59 0	
Pertinney - - -	34 49 0	15501
Chume Hill - -	41 56 0	13244
Karnennis - - -	103 15 0	
Pertinney -	51 4 0	21224
Karnennis - - -	82 32 0	16605
Steam Engine, Chume Hill	46 24 0	
Pertinney -	34 38 0	10243
Karnennis - -	39 27 30	9160
St. Just Steeple -	105 54 30	
Pertinney - -	43 52 0	9259
Karnennis - -	36 1 0	10912
Karnbesavern - - -	100 7 0	
Pertinney - -	49 47 0	13824
Karnennis - -	58 5 0	12436
Flagstaff near St. Just	72 8 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Pertinney - - -	24 34 0	10864
Karnennis - - - -	38 47 0	7210
Karn East of Karnkinnejack	116 39 0	
Pertinney - - -	122 33 0	17520
Karnennis - - -	30 38 40	28974
Sennen Steeple - -	26 48 20	
Sennen Steeple - -	23 49 0	20328
Karnennis - -	38 20 50	13231
Cape Cornwall - -	117 50 10	
Ludgvan Steeple - -	51 0 0	20509
St. Michael's Mount -	97 9 0	16063
Gwavias Battery -	31 51 0	
Ludgvan Steeple -	48 57 0	26316
St. Michael's Mount -	114 59 0	19782
Mousehole Battery - -	22 4 0	
Ludgvan Steeple -	61 13 30	13889
St. Michael's Mount -	70 54 0	12879
Penzance Spire - -	47 54 30	
St. Paul's Steeple - -	3 47 0	21414
St. Michael's Mount -	154 39 0	2976
Marazion Chapel -	24 34 0	
St. Paul's Steeple -	19 39 0	46452
St. Michael's Mount -	148 0 0	29427
Tregonning Signal Staff	12 21 0	
St. Paul's Steeple - -	37 51 0	16671
St. Michael's Mount -	61 22 0	11655
Gulval Steeple - -	80 47 0	
St. Paul's Steeple -	21 42 0	17587
St. Michael's Mount - -	69 41 0	6934
Long Rock, Stone -	68 37 0	
Gwavias Battery -	41 35 0	22865
Ludgvan Steeple -	77 21 0	15533
Perran, St. Uthnoe Steeple	61 4 0	
Gwavias Battery - -	58 11 0	25864
Ludgvan Steeple -	72 38 0	23027
Cuddan Point - -	49 11 0	
Gwavias Battery -	19 43 0	7282
Ludgvan Steeple -	10 12 0	13872
Penzance Spire -	150 5 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Gwavias Battery - -	6 24 0	14436
Ludgvan Steeple - -	14 38 0	6369
Long Rock Stone -	158 58 0	
Gwavias Battery -	20 50 0	6708
Long Rock Stone - -	16 17 0	8508
Penzance Battery -	142 53 0	
Gwavias Battery -	5 6 0	18622
St. Michael's Mount -	146 20 0	2986
Marazion Chapel -	28 34 0	
Gwavias Battery - -	19 37 0	26838
St. Michael's Mount -	135 39 0	12889
Acton Castle - -	24 44 0	
Tregonning Signal Staff	9 48 0	42098
Karnminnis - -	35 50 0	12242
Knill's Monument -	134 22 0	
Tregonning Signal Staff	33 42 0	29498
Karnminnis - -	31 21 0	31458
St. Michael's Mount -	114 57 0	
Pertinney - - -	5 42 0	51422
St. Michael's Mount -	156 58 0	12877
Acton Castle - -	17 40 0	
Tregonning Signal Staff	43 30 0	42084
St. Michael's Mount -	92 2 0	28987
Knill's Monument -	44 28 0	
Rogers Tower - -	37 6 0	29400
St. Michael's Mount -	103 1 0	18202
Highest point of Clement's Isle - -	39 53 0	
Rogers Tower - -	81 13 0	11549
St. Michael's Mount -	32 59 0	20965
Trecombe Hill Middle Karn - - -	65 48 0	
Tregonning Signal Staff	34 26 0	43157
St. Paul's Steeple -	66 1 0	26710
Rogers Tower - -	79 33 0	
Tregonning Signal Staff	113 1 0	54856
St. Paul's Steeple -	36 38 0	84615
Windmill near the Lizard	30 21 0	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
	° ′ ″	
Pertinney - - -	49 37 0	35025
St. Paul's Steeple -	87 3 0	26714
Rogers Tower - -	43 20 0	
Rogers Tower - -	81 54 0	10982
St. Paul's Steeple -	23 22 0	27413
Mulfra Cromleche -	74 44 0	
Rogers Tower - -	48 45 0	29569
St Paul's Steeple - -	72 1 0	23373
Barrow east of Pertinney	59 14 0	
Rogers Tower - -	30 33 0	14684
St. Paul's Steeple - -	27 57 0	15851
Madern Steeple -	121 30 0	
Rogers Tower - -	125 51 0	11559
St. Paul's Steeple -	15 38 0	34768
Trecombe Hill -	38 31 0	
Rogers Tower -	37 23 0	29388
St. Paul's Steeple - -	79 20 0	18156
Beacon Hill, Karn -	63 17 0	
Rogers Tower -	106 45 0	12506
Barrow east of Pertinney	19 51 0	35268
Karnminnis -	53 24 0	
Rogers Tower - -	51 35 0	10348
Karnminnis - - -	53 8 0	10134
Trenk Hill - - -	75 17 0	
Rogers Tower - -	73 31 0	10965
Karnminnis - -	48 12 20	14103
Mulfra Cromleche -	58 16 40	
Rogers Tower -	13 36 0	13644
Karnminnis - - -	103 11 0	32951
Watch, highest West Karn	63 13 0	
Rogers Tower -	49 25 20	15829
Karnminnis - - -	79 34 0	12224
Knill's Monument -	51 0 40	
Karnminnis Karn -	19 50 0	18803
Pertinney - - -	15 1 0	24622
Karn Galver, South Karn	145 9 0	
Karnminnis - - -	24 0 0	28271
Knill's Monument -	139 46 30	17806
Vicarage St. Earth -	16 13 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Karnminnis - -	102 36 0	5773
Knill's Monument -	22 40 0	14621
White Down Barrow -	54 44 0	
Karnminnis - -	104 31 0	109
Knill's Monument -	0 29 40	12260
Karnminnis Karn -	74 59 20	
Karnminnis -	27 43 0	35650
Knill's Monument -	139 40 0	25444
Godrevy Island, highest Point - - - -	12 57 0	
Rogers Tower - -	36 29 20	10262
Knill's Monument -	38 49 40	9733
Towednack Steeple -	104 41 0	
St. Agnes Beacon -	113 55 0	189
Karnminnis - -	0 7 0	84687
St. Ann's Summer House	65 58 0	
St. Ann's Summer House	21 43 0	56626
Karnminnis - -	33 9 0	38316
Gwynier Steeple -	125 8 0	
St. Ann's Summer House	4 21 0	74036
Karnminnis - -	27 20 0	12230
Knill's Monument -	148 19 0	
St. Ann's Summer House	47 56 0	32376
Karnminnis - -	20 53 0	67424
Karnbreh, highest Karn	111 11 0	
St. Ann's Summer House	49 17 0	31605
Karnminnis - -	20 30 0	68402
Karnbreh Castle -	110 13 0	
Knill's Monument -	40 9 0	26119
St. Ann's Summer House	17 18 0	56634
Gwynier Steeple -	122 33 0	
St. Ann's Summer House	8 2 0	27106
Karnbreh Karn -	34 23 0	6708
Redruth, Market House	137 35 0	
St. Ann's Summer House	27 21 0	30447
Karnbreh Karn -	69 8 0	14970
Lord de Dunstanville's House - -	83 31 0	

Names of Stations and intersected Objects	Angles for Calculation.	Distances in Feet.
	° ′ ″	
St. Ann's Summer House	53 23 0	13559
Karnbreh Karn -	24 7 0	26617
West Barrow on Two Barrow Down -	102 30 0	
Gwynier Steeple -	20 4 0	18685
St. Ann's Summer House	9 19 0	39602
Camborne Steeple -	150 37 0	
St. Ann's Summer House	16 54 0	32388
Camborne Steeple -	47 33 0	12760
Karnbreh Karn -	115 33 0	
Karnbreh Karn -	80 5 0	11732
Camborne Steeple -	47 6 0	15777
Illogan Steeple -	52 49 0	
Karnbreh Karn -	84 41 0	20339
Camborne Steeple -	61 46 0	22988
Poltowen Signal Staff -	33 33 0	
Camborne Steeple -	19 59 0	37307
St. Ann's Summer House	70 24 0	13534
West Barrow on Two Barrow Down -	89 37 0	
Camborne Steeple -	143 48 0	5986
Gwynier Steeple -	8 33 0	23780
Karnbreh House -	27 39 0	
Camborne Steeple -	91 30 0	12086
Gwynier Steeple -	32 27 0	22517
Ruskejeage Down -	56 3 0	
Camborne Steeple -	83 3 0	17532
Gwynier Steeple - -	46 25 0	24026
Crowan Beacon -	50 32 0	
Gwynier Steeple -	41 4 0	23770
Ruskejeage Down -	73 36 0	16278
Karnbreh House -	65 20 0	
St. Ann's Summer House	69 11 0	20669
West Barrow - -	72 13 0	20289
Perran Steeple - -	38 36 0	
St. Ann's Summer House	31 27 0	17919
West Barrow - -	100 37 0	9512
North Barrow on Four Barrow Down -	47 56 0	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
	° ′ ″	
St. Ann's Summer House	85 11 0	33407
North Barrow - -	65 34 0	36564
Carter's Rock - -	29 15 0	
St. Ann's Summer House	53 26 0	25293
North Barrow - -	81 59 0	20515
St. Days Engine House	44 35 0	
St. Ann's Summer House	48 19 0	3626
North Barrow - -	9 54 0	15752
St. Agnes Spire - -	121 47 0	
St. Ann's Summer House	65 34 0	30801
North Barrow - -	79 31 0	28519
Large Stone, Karnmarth Barrow - -	34 55 0	
West Barrow - -	123 4 0	13697
North Barrow -	34 2 30	20505
Engine House, St. Days	22 53 30	
Mulfra Cromleche -	22 53 0	7740
Karnminnis - -	23 21 0	7593
Gundry Karn - -	133 46 0	
Gundry Karn - -	0 47 40	7621
Karnminnis - -	104 22 0	108
Karnminnis Karn -	74 50 20	
Gundry Karn - -	129 21 0	9131
Karnminnis Karn -	27 46 0	15156
Rock on the Coast near Zennor - -	22 53 0	
Gundry Karn - -	41 26 0	3075
Karnminnis Karn - -	20 57 0	5692
Karn, Zennor Hill -	117 37 0	
Rogers Tower - -	49 25 0	12623
Knill's Monument -	51 32 0	12244
Karnminnis Karn -	79 3 0	
Rogers Tower - -	73 32 0	11006
Karnminnis Karn -	48 0 0	14203
Mulfra Cromleche -	58 28 0	
Malfra Cromleche -	113 3 0	7925
Karnminnis Karn -	22 51 0	18779
Karn Galver, South Karn	44 6 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Mulfra Cromleche - -	111 54 0	10050
Karnminnis Karn - -	27 27 0	20229
Karn Galver North Karn	40 39 0	
Rogers Tower - - -	55 50 0	8715
Mulfra Cromleche -	49 54 0	9389
Frear Farm, New House	74 36 0	
Karnminnis - - -	30 6 0	38316
Tregonning Signal Staff	46 28 0	26506
Gwynier Steeple - -	103 26 0	
Karnminnis - -	9 15 30	33848
Tregonning Signal Staff	16 50 0	18805
St. Hilary Spire -	153 54 30	
Karnminnis - -	8 56 30	43783
Tregonning Signal Staff	39 50 30	10622
East House at Karnegey	131 13 0	
Tregonning Signal Staff	49 39 0	10624
Knill's Monument -	12 57 0	36131
East House at Karnegey	117 24 0	
Tregonning Signal Staff	5 39 0	6215
East House at Karnegey	7 51 0	4480
St. Germowe Steeple -	166 30 0	
Tregonning Signal Staff	32 6 0	7719
East House, Karnegey	44 28 0	5526
Trewagias Farm -	105 26 0	
Tregonning Signal Staff	41 49 0	14611
East House, Karnegey -	91 34 0	9746
Girling Farm -	46 37 0	
Tregonning Signal Staff	128 33 0	5492
Gwynier Steeple -	8 10 0	30235
St. Breage Steeple - -	43 17 0	
Gwynier Steeple -	45 41 30	19129
St. Breage Steeple -	39 3 0	21727
Crowan Steeple -	95 15 30	
Tregonning Signal Staff	25 50 0	10613
St. Breage Steeple -	131 17 0	6154
Sithney Steeple -	22 53 0	
Karnminnis - -	30 34 0	51406
Karnbonellis -	43 44 0	37811
Tregonning Signal Staff	105 42 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Karnminnis - -	27 5 0	44508
Karnbonellis - -	32 23 0	37835
Godolphin Hill -	120 32 0	
Karnbonellis - -	22 17 0	20898
Tregonning Signal Staff	23 13 0	20101
Saundry Hill Mine -	134 30 0	
Karnbonellis -	43 4 50	66343
Tregonning Signal Staff	103 13 15	46548
Park Loughs Signal Staff	33 41 55	
Karnbonellis - -	110 35 0	249
Tregonning Signal Staff	0 21 10	37900
Karnbonellis Barrow -	69 3 50	
Karnbonellis -	22 16 30	56379
St. Erme Steeple -	56 31 30	25620
St. Michael Penkeville	101 12 0	
St. Michael Penkeville	44 50 0	22762
St. Erme Steeple -	59 26 0	18638
St. Probus Steeple -	75 44 0	
St. Michael Penkeville	13 51 0	31419
St. Probus Steeple -	135 50 0	10794
Ladock Steeple -	30 19 0	
St. Probus Steeple -	81 22 0	26426
St. Erme Steeple -	60 41 0	29964
Trevidown - -	37 57 0	
Trevidown - -	64 18 0	11533
St. Probus Steeple -	25 52 30	23812
St. Stephen's Steeple -	89 49 30	
Trevidown -	13 24 0	16807
St. Probus Steeple -	21 8 0	10803
Ladock Steeple -	145 28 0	
Trevidown - -	10 18 0	26425
St. Probus Steeple -	84 50 0	4744
Trewithen House -	84 52 0	
Trevidown -	32 35 0	46555
St. Probus Steeple -	117 3 0	28151
St. Michael Carhais Steeple	30 22 0	
Trevidown - -	45 15 0	51209
St. Probus Steeple -	104 49 30	37620
St. Goran Steeple -	29 55 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Karnminnis -	32 37 0	84696
Karnbonellis -	89 42 0	45653
St. Ann's Summer House	57 41 0	
Karnbonellis -	64 27 0	56380
St. Ann's Summer House	67 14 40	55160
St. Michael Penkeville	48 18 20	
Karnbonellis -	22 54 0	243
St. Ann's Summer House	0 7 10	45431
Barrow Karnbonellis -	156 58 50	
Karnbonellis -	62 41 30	37509
St. Ann's Summer House	49 44 30	43673
Barrowclose, Spry's Plantation Kea - -	67 34 0	
Karnbonellis Barrow -	113 11 0	14643
St. Ann's Summer House	14 54 0	52744
Stone, Stithians Down -	52 55 0	
Karnbonellis Barrow -	39 14 0	11980
Stone, Stithians Down -	54 43 0	9282
St. Stithians Steeple -	86 3 0	
St. Michael Penkeville	97 45 0	22754
St. Ann's Summer House	21 10 0	62442
St. Probus Steeple -	61 5 0	
St. Michael Penkeville	53 51 0	38166
St. Ann's Summer House	43 21 0	44895
Michaels Down Barrow	82 48 0	
Michaels Down Barrow	17 26 0	54396
St. Michael Penkeville	130 7 0	21310
St. Veryan Beacon -	32 27 0	
Michaels Down Barrow	23 52 0	26715
St. Michael Penkeville	38 12 0	17479
Kenwyn Steeple -	117 56 0	
Karnbonellis - -	87 21 0	246
St. Michael Penkeville	0 15 0	56368
Karnbonellis Barrow	92 24 0	
St. Michael Penkeville	39 29 0	27503
Karnbonellis Barrow -	26 27 0	39262
Three mile stone from Truro, towards Redruth - -	114 4 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
St. Michael Penkeville	13 5 0	47744
Karnbonellis Barrow -	47 35 0	14640
Stone, Stithians Down	119 20 0	
St. Michael Penkeville	145 48 0	22764
Karnbonellis Barrow -	9 39 20	76288
St. Probus Steeple -	24 32 40	
Karnbonellis Barrow -	8 17 0	81437
St. Probus Steeple -	110 10 0	12500
Tregoney Steeple -	61 33 0	
Knill's Monument -	7 6 30	10916
Gwynier Steeple -	5 3 0	15349
Lelant Steeple -	167 50 30	
Knill's Monument -	6 26 0	16075
Gwynier Steeple -	10 4 0	10304
Phillack Steeple -	163 30 0	
Knill's Monument -	88 25 0	8373
Gwynier Steeple -	17 55 0	27207
St. Ive's Battery -	73 40 0	
Knill's Monument -	93 56 0	6129
Gwynier Steeple -	12 58 30	27235
St. Ive's Steeple -	73 5 30	
Knill's Monument -	34 53 0	34712
Gwynier Steeple -	96 46 0	19991
Godolphin Hill -	48 21 0	
St. Ive's Steeple -	160 1 0	2358
Knill's Monument -	5 31 0	8384
St. Ive's Battery -	14 28 0	
St. Ive's Steeple -	71 23 0	16972
Knill's Monument -	87 28 0	16099
Phillack Steeple -	21 9 0	
St. Ive's Steeple -	52 30 0	13513
Knill's Monument -	101 4 0	10924
Lelant Steeple -	26 26 0	
St. Ive's Steeple -	123 10 0	21568
Knill's Monument -	45 12 0	25445
Godrevy Island, highest Point - -	11 38 0	
St. Ive's Steeple -	13 19 0	1825
Knill's Monument -	5 31 0	4373
Tregenner Castle -	161 10 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Saundry Hill -	19 58 0	10821
Tregonning Signal Staff	20 24 30	10596
Sithney Steeple -	139 37 30	
Saundry Hill - -	29 33 0	13769
Karnbonellis -	37 17 0	11210
Crowan Beacon -	113 10 0	
Saundry Hill -	20 51 0	19289
Karnbonellis -	67 18 0	7442
Hangman Hill Barrow	91 51 0	
Saundry Hill - -	52 34 0	49322
Karnbonellis - -	12 20 0	18323
St. Wendron Steeple -	115 5 30	
Tregonning Signal Staff	17 54 0	35769
Park Loughs Signal Staff	41 18 30	16654
Cury Steeple - -	120 47 30	
Cury Steeple - -	36 53 0	14571
Tregonning Signal Staff	19 56 0	25651
Direction Post, Helston Down - - -	123 11 0	
Cury Steeple - -	134 25 30	15681
Tregonning Signal Staff	13 28 20	48068
Dry Tree - -	32 6 10	
Park Loughs Signal Staff	36 17 0	25625
Cury Steeple - -	104 47 0	15684
Dry Tree - -	38 56 0	
Cury Steeple - -	84 20 6	6828
Dry Tree - -	24 20 30	16487
Mullyan Steeple -	71 13 30	
Cury Steeple - -	97 34 0	14558
Dry Tree - -	39 21 0	22761
Direction Post, Helston Down - -	43 5 0	
Park Loughs Signal Staff	46 42 0	30608
Dry Tree - -	78 15 0	22753
Direction Post, Helston Down - -	55 3 0	
Direction Post -	43 44 0	21379
Dry Tree - -	63 41 0	16488
Mullyan Steeple -	72 35 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Direction Post, Helston Down - -	120 51 0	13158
Dry Tree - -	20 57 0	31593
Wendron Mine -	38 12 0	
Tregonning Signal Staff	11 8 0	18343
Direc. Post, Helston Down	24 50 0	8433
Helston Steeple -	144 2 0	
Tregonning Signal Staff	20 7 0	60652
Dry Tree - -	113 4 0	22673
Grade Steeple -	46 49 0	
Tregonning Signal Staff	18 7 0	53472
Dry Tree - -	99 24 0	16853
Ruan Major Steeple -	62 29 0	
Tregonning Signal Staff	14 38 30	61026
Dry Tree - -	125 26 0	18932
Rescreage Fire Beacon	39 55 30	
Tregonning Signal Staff	72 49 0	37913
Dry Tree - -	44 43 0	51290
Karnbonellis Barrow -	63 8 0	
Dry Tree - -	64 44 0	43460
Rescreage Fire Beacon -	89 26 0	39304
Stithians Down, Stone	25 50 0	
Dry Tree - -	49 4 0	8866
Roscreage Fire Beacon	27 1 40	14740
St. Martin Steeple -	103 54 20	
Dry Tree - -	18 42 0	21539
Roscreage Fire Beacon	101 58 0	7059
St. Keverne Spire -	59 20 0	
Dry Tree - -	34 59 0	18593
Roscreage Fire Beacon	70 50 0	11286
Manacka Steeple -	74 11 0	
Dry Tree - -	63 9 30	42321
Roscreage Fire Beacon	90 15 30	37761
Haws Rock - -	26 35 0	
Dry Tree - -	65 44 30	26177
Roscreage Fire Beacon -	71 10 0	25274
St. Constantine Steeple	43 5 30	
Dry Tree - -	60 33 50	36758
Roscreage Fire Beacon	88 26 10	32025
Pillaston Karn -	31 0 0	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
	° ′ ″	
Dry Tree - -	24 12 0	28634
Roscreage Fire Beacon	121 27 0	13753
Mawnan Steeple -	34 21 0	
Dry Tree - -	5 0 0	36778
Stithians Down, Stone	25 10 0	7537
Pillaston Karn -	149 50 0	
Stithians Down, Stone	100 59 0	7545
St. Michael Penkeville -	8 34 0	49723
Pillaston Karn -	70 27 0	
Dry Tree - -	6 32 0	38648
Pillaston Karn -	100 13 0	4686
Mabe Steeple -	63 15 0	
Pillaston Karn -	20 4 0	21820
Roscreage Fire Beacon	33 0 0	13746
Mawnan Steeple -	126 56 0	
Pillaston Karn -	70 36 0	14105
Roscreage Fire Beacon -	25 57 0	30405
St. Budock Steeple -	83 27 0	
Pillaston Karn -	80 51 0	43266
Roscreage Fire Beacon	59 31 0	49567
Gerrance Spire -	39 38 0	
Pillaston Karn -	84 5 0	37560
Roscreage Fire Beacon	53 0 0	46780
St. Teath Windmill -	42 55 0	
Pillaston Karn -	65 9 0	26538
Roscreage Fire Beacon	49 5 0	31868
St. Dennis Castle -	65 46 0	
St. Dennis Steeple -	106 54 0	13479
Hensbarrow Beacon	33 47 0	23194
Castle Ann Dennis -	39 19 0	
Hensbarrow Beacon -	42 36 0	23199
Cubert Spire - -	16 47 0	54381
Castle Ann Dennis -	120 37 0	
St. Agnes Beacon -	13 1 50	86895
Hensbarrow Beacon -	57 36 40	23202
Castle Ann Dennis -	109 21 30	
St. Agnes Beacon -	49 56 40	94651
Hensbarrow Beacon -	63 28 0	80978
Cow and Calf -	66 35 20	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
St. Agnes Beacon -	34 48 0	62415
Castle Ann Dennis -	44 59 0	50391
St. Probus Steeple -	100 13 0	
Hensbarrow Beacon -	25 9 0	25699
Castle Ann Dennis -	90 21 0	10922
St. Wenne Steeple -	64 30 0	
Hensbarrow Beacon -	25 5 0	7927
Castle Ann Dennis -	11 51 0	16365
St. Roach Steeple -	143 4 0	
Hensbarrow Beacon -	57 22 0	26753
Castle Ann Dennis -	68 44 0	24176
Trevidown - -	53 54 0	
Hensbarrow Beacon -	19 48 0	18356
Castle Ann Dennis -	46 23 0	8589
Belovely Down Barrow	113 49 0	
Cubert Spire - -	34 32 0	14680
Castle Ann Dennis -	11 8 0	43099
Newlyn Steeple -	134 20 0	
Newlyn Steeple -	58 29 0	24391
Castle Ann Dennis -	34 25 0	36788
Mawgan Rock -	87 6 0	
St. Agnes Beacon -	17 23 0	43843
Cubert Spire -	116 48 0	14675
Newlyn Steeple -	45 49 0	
Trevidown - -	13 35 0	8205
Castle Ann Dennis -	6 47 0	16315
Barrow near the Indian Queen -	159 38 0	
Trevidown - -	82 27 0	9516
Castle Ann Dennis -	22 22 0	24791
St. Enodore Steeple -	75 11 0	
Stone, St. Breoc's Down	30 48 0	364
Hensbarrow Beacon -	0 17 40	36259
St. Breoc's Barrow -	148 54 20	
Hensbarrow Beacon -	6 20 30	25728
St. Breoc's Barrow -	14 53 0	11059
St. Wenne Steeple -	158 46 40	
Hensbarrow Beacon -	38 30 50	34125
St. Breoc's Barrow -	65 47 0	23300
St. Columb Major Steeple	75 42 10	

Namesof Stations and intersected Objects,	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Hensbarrow Beacon -	81 17 0	74936
St. Breoc's Barrow -	71 24 50	78135
St. Cubert Rock -	27 18 10	
Hensbarrow Beacon -	9 19 0	38390
St. Breoc's East Barrow	104 39 0	6425
St. Breoc's West Barrow	66 2 0	
St. Breoc's East Barrow	38 54 0	6432
St. Columb Major Steeple	12 27 0	18735
West Barrow -	128 39 0	
St. Breoc's East Barrow	43 25 0	17439
West Barrow -	117 30 0	13513
St. Issey Steeple -	19 5 0	
St. Breoc's East Barrow	68 12 0	45583
West Barrow -	103 56 0	43606
Rock, mouth of Alan River - -	7 52 0	
Karnbonellis - -	91 34 36	72565
Deadman - -	35 8 2	126045
Grade Steeple -	53 17 22	
Lansallos - -	39 54 10	67329
Bodmin - -	77 9 30	44299
Roach Steeple -	62 56 20	
Deadman Signal Staff	51 52 0	15512
Hensbarrow Beacon -	13 40 56	51582
St. Michael Carhais Steeple	114 27 4	
Deadman Signal Staff -	8 39 0	49757
Hensbarrow Beacon -	35 28 0	12897
Old Watch Barrow -	135 53 0	
Deadman Signal Staff -	9 36 0	40245
Old Watch Barrow -	33 40 0	12107
Unanimity Mine -	136 44 0	
Deadman Signal Staff	40 35 0	43536
Old Watch Barrow -	59 29 0	32876
St. Probus Steeple -	79 56 0	
St. Probus Steeple -	66 28 0	22579
Deadman Signal Staff	30 57 0	40252
Unanimity Mine -	82 35 0	
St. Probus Steeple -	10 46 0	37491
Deadman Signal Staff	46 15 0	9695
Goran Steeple -	122 59 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
	° ′ ″			° ′ ″	
St. Probus Steeple -	69 8 30	37477	Old Watch Barrow -	19 34 0	21408
Old Watch Barrow -	60 51 0	40099	St. Austle Steeple -	130 5 0	9371
Goran Steeple -	50 0 30		Penrice House -	30 21 0	
Unanimity Mine -	40 59 0	43077	Old Watch Barrow -	12 12 0	4255
Deadman Signal Staff	74 42 0	29290	St. Austle Steeple -	5 9 0	10019
Veryan Beacon -	64 19 0		Mawnan, or Grey Rock	162 39 0	
Goran Steeple -	19 44 0	33674	Old Watch Barrow -	14 14 0	11029
Old Watch Barrow -	53 32 0	14138	St. Austle Steeple -	38 8 0	4391
St. Austle Steeple -	106 44 0		Mawnan Hill -	127 38 0	

ART. VI. *Secondary Triangles for the Survey of Dorsetshire. Plate* VI.

Wingreen - -	65 42 0	22265	Wingreen - -	63 31 30	36967
Bulbarrow - -	18 43 0	63239	Trinity Steeple -	80 5 0	33592
Trinity Steeple, Shaftsbury	95 35 0		Hamilton Hill - -	36 23 30	
Wingreen - -	35 29 0	17274	Wingreen - -	46 27 0	14207
Bulbarrow - -	10 20 0	55899	Trinity Steeple -	39 32 0	16177
Melbury Hill -	134 11 0		Direction Post, Blandford Road - -	94 1 0	
Wingreen - -	56 45 0	33099			
Bulbarrow -	28 32 0	57949	Wingreen - -	8 58 0	33262
Duncliffe Hill - -	94 43 0		Trinity Steeple -	153 55 0	11791
			Duncliffe Hill -	17 7 0	
Wingreen - -	56 54 0	59304			
Bulbarrow - -	53 34 0	61749	Wingreen - -	41 27 0	45043
Badbury Rings -	69 32 0		Trinity Steeple -	111 5 0	31956
			West Knoyle Steeple -	27 28 0	
Wingreen - -	99 38 6	87990			
Bulbarrow - -	45 59 45	120602	Wingreen - -	19 55 0	25081
Ringwood Steeple -	34 22 9		Trinity Steeple -	98 45 0	8644
			Kingsettles -	61 21 0	
Wingreen - -	81 34 8	57251			
Bulbarrow - -	43 1 54	82989	Wingreen - -	143 33 0	9152
Horton Gazebo -	55 23 58		Trinity Steeple -	10 24 0	30121
			Winklebury Obelisk -	26 3 0	
Wingreen - -	45 26 18	75778			
Bulbarrow - -	73 36 13	56280	Wingreen -	37 29 0	19605
Trenchard's Tower -	60 57 29		Trinity Steeple -	60 39 0	13687
			Ticklepath Hill -	81 52 0	
Wingreen - -	64 31 0	57412			
Trinity Steeple -	92 41 30	51886			
Bellchalwell Telegraph	22 47 30				

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Wingreen - -	110 55 0	21048
Trinity Steeple -	33 26 0	35684
Barrow near the seven mile stone on the Salisbury Road - - -	35 39 0	
Ticklepath Hill -	56 1 0	24319
Wingreen - -	73 24 0	21043
Barrow, seven mile Stone	50 35 0	
Wingreen - -	15 30 0	28477
Barrow, seven mile Stone	130 2 0	9939
Castle Ditches -	34 28 0	
Wingreen - -	35 14 0	15563
Barrow, seven mile Stone	47 8 0	12250
Manwood Clump -	97 38 0	
Wingreen - -	16 8 0	15612
Barrow, seven mile Stone	35 39 0	7444
Windmill Hill -	128 13 0	
Wingreen - -	95 14 0	57412
Bradley Knoll -	36 29 0	96157
Bellchalwell Telegraph	48 17 0	
Wingreen - -	8 20 0	11132
Bradley Knoll -	61 26 0	67464
Stour Head Obelisk -	110 14 0	
Wingreen - -	18 13 0	65737
Bradley Knoll - -	64 53 0	22696
Pen Selwood Steeple -	96 54 0	
Wingreen - -	11 51 0	75712
Bradley Knoll - -	97 25 0	15679
Alfred's Tower -	70 44 0	
Wingreen - -	35 36 0	33972
Bradley Knoll - -	23 59 0	48653
Font-hill Abbey -	120 25 0	
Wingreen -	16 10 0	14195
Melbury Hill -	47 21 0	5373
Direction Post, Blandford Road - -	116 29 0	
Wingreen - -	126 27 0	13000
Melbury Hill -	22 42 0	27097
White Sheet Barrow -	51 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Barrow, seven mile Stone	79 47 0	9671
Ticklepath Hill	22 50 0	24526
Firs, Castle Ditches	77 23 0	
Wingreen -	11 54 0	68230
Bellchalwell Telegraph	123 35 0	16888
Houghton Down Clump	44 31 0	
Wingreen - -	44 38 0	37316
Bellchalwell Telegraph	40 21 0	40492
Blandford Telegraph	95 1 0	
Wingreen - -	33 49 0	67875
Bellchalwell Telegraph	88 27 0	37789
Clump of trees beyond Blandford - -	57 44 0	
Trinity Steeple -	97 40 0	21614
Bullbarrow - -	17 57 0	69506
Gillingham Spire -	64 23 0	
Trinity Steeple -	13 28 0	38144
Bullbarrow - -	18 46 0	27612
Sturminster Steeple -	147 46 0	
Ticklepath Hill -	40 55 0	16998
Wingreen - -	58 44 0	13025
White Sheet Barrow	80 21 0	
Melbury Hill -	21 54 0	33762
Bull Barrow - -	27 8 0	27612
Sturminster Steeple -	130 58 0	
Bullbarrow - -	15 19 0	33497
Sturminster Steaple	117 57 0	10017
Manston Steeple -	46 44 0	
Horton Gazebo -	92 26 0	24811
Wingreen - -	23 2 0	63354
Pistle Down Telegraph	64 32 0	
Horton Gazebo -	135 15 20	4230
Pistle Down Telegraph	6 6 40	27974
Chalbury Telegraph -	38 38 0	
Horton Gazebo -	50 21 0	34140
Pistle Down Telegraph	83 26 0	26460
Pentridge Hill -	46 13 0	
Pentridge Hill -	20 21 0	13607
Pistle Down Telegraph	19 3 0	14497
Cranborne Steeple -	140 36 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Pentridge Hill -	125 44 0	23969
Pistle Down Telegraph	25 41 0	44895
White Farm House on high ground -	28 35 0	
Pentridge Hill - -	53 57 0	9638
Pistle Down Telegraph	20 33 0	22201
Direction Post near Bottle Clump - -	105 30 0	
Pentridge Hill - -	99 14 0	27363
Pistle Down Telegraph	41 12 0	41002
Inn, new Buildings Blandford Road - -	39 34 0	
Pistle Down Telegraph	75 22 0	62782
Wingreen - -	51 59 0	77111
Salisbury Spire - -	52 39 0	
Pistle Down Telegraph	58 26 0	27920
Wingreen - -	26 1 0	54234
Chalbury Telegraph -	95 33 0	
Pistle Down Telegraph	18 52 0	26454
Wingreen - -	12 35 0	39265
Pentridge Hill -	148 33 0	
Wingreen - -	21 17 0	50690
Pentridge Hill - -	113 25 0	20051
Summer House on the Wimborne Road from Cranborne - -	45 18 0	
Wingreen - -	32 32 0	29443
Pentridge Hill - -	47 38 0	21431
Caishmoor Windmill -	99 50 0	
Wingreen - -	12 37 0	48851
Pentridge Hill -	128 14 0	13584
Cranborne Steeple -	39 9 0	
Pentridge Hill - -	79 38 0	14397
Direction Post, Bottle Hill	63 33 0	15818
Handley Steeple -	36 49 0	
Wingreen - -	23 40 0	37993
Kingsettles - -	122 30 0	18084
East Knoyle Windmill	33 50 0	
Wingreen - -	25 38 0	35635
Kingsettles - -	114 34 0	16951
East Knoyle Steeple -	39 48 0	

Names of Stations and intersected objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Wingreen - -	46 25 0	33969
Kingsettles - -	86 8 0	24661
Font-Hill Abbey -	47 27 0	
Wingreen - -	52 38 0	20656
Kingsettles - -	52 37 0	20661
Wardour Castle -	74 45 0	
Wingreen - -	36 55 0	26665
Kingsettles - -	76 47 0	16452
Pit House - -	66 18 0	
Trinity Steeple -	38 10 0	8626
Ticklepath Hill -	37 40 0	8723
Kingsettles - -	104 10 0	
Kingsettles - -	70 45 0	8958
Ticklepath Hill -	55 42 0	10238
Sedgehill House -	53 33 0	
Kingsettles - -	24 41 0	9526
Ticklepath Hill -	89 2 0	3979
Semley Steeple -	66 17 0	
Duncliffe - -	48 50 0	34213
Bullbarrow - -	36 1 0	43800
Stalbridge House -	95 9 0	
Duncliffe - -	33 5 0	19382
Bullbarrow - -	14 14 0	43029
Marnhull Steeple -	132 41 0	
Trinity Steeple -	28 14 0	34708
Gillingham - -	118 38 0	18706
Mere Steeple - -	33 8 0	
Trinity Steeple -	22 32 0	33323
Mere Steeple - -	72 54 0	13361
Silton Steeple - -	84 34 0	
Sturminster Steeple -	42 21 0	7045
Trinity Steeple - -	8 12 0	33278
Hinton Steeple -	129 27 0	
Hinton Steeple - -	53 53 0	27255
Trinity Steeple -	51 59 0	27947
Iwerne, Minster Steeple	74 8 0	
Hinton Steeple -	93 21 0	19643
Trinity Steeple -	29 40 0	39618
Shillingstone - -	56 59 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Hinton Steeple - -	16 10 0	19380
Shillingstone - -	79 12 0	5493
Child Okeford - -	84 38 0	
Wingreen - - -	21 26 30	54248
Badbury Rings - -	66 2 41	21700
Chalbury Telegraph -	92 30 49	
Badbury Rings - -	9 55 30	25048
Chalbury Telegraph -	124 32 30	5241
Hauton New Inn -	45 32 0	
Badbury Rings -	70 56 0	17720
Chalbury Telegraph -	46 28 0	23101
Wimborne Steeple -	62 36 0	
Hauton New Inn -	55 5 0	11526
Chalbury Telegraph -	98 10 0	9547
Wichampton Steeple -	26 45 0	
Hauton Gazebo -	135 15 20	4230
Pistle Down Telegraph -	6 6 40	27974
Chalbury Telegraph -	38 38 0	
Wingreen - - -	45 38 0	37312
Hamilton Hill - -	67 49 0	28805
Blandford Telegraph -	66 33 0	
Blandford Telegraph - -	43 42 0	4855
Bellchalwell Telegraph -	5 11 0	37132
Twiss Barrow - -	131 7 0	
Twiss Barrow - -	124 46 0	6829
Blandford Telegraph -	32 40 0	10394
Busbury Barrow -	22 34 0	
Twiss Barrow - -	69 9 0	10865
Busbury Barrow -	73 44 0	10576
Blandford Steeple -	37 7 0	
Blandford Steeple -	69 28 0	8119
Busbury Barrow - -	44 32 0	10841
Station above Charleton -	66 0 0	
Blandford Steeple -	106 36 0	8106
Twiss Barrow - -	30 31 0	15299
Station near Charleton -	42 53 0	
White Sheet Barrow -	31 51 0	26588
Font-hill Abbey -	85 32 0	14073
Ridge Hill Clump -	62 37 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
White Sheet Barrow - -	52 40 0	36516
Ridge Hill - -	81 18 0	29373
Compton Hut Clump -	46 2 0	
Ridge Hill - -	136 28 0	4094
White Sheet Barrow -	5 27 0	29690
Chilmark Spire -	38 5 0	
Wingreen - -	38 12 0	47339
Ridge Hill - -	85 54 0	29350
Compton Hut Clump -	55 54 0	
Font-hill Abbey -	3 15 0	48381
Compton Hut Clump -	157 43 0	7233
Clump east - - -	19 2 0	
Compton Hut Clump -	48 2 30	8088
Clump east - - -	73 7 0	6285
Barford St. Martin Steeple	58 50 30	
Compton Hut Clump -	127 25 0	12274
Clump east - -	33 34 0	17632
Baverstock - -	19 1 0	
Compton Hut Clump -	10 17 0	16286
Clump east - -	161 42 0	9259
Wilton Steeple -	8 1 0	
Nine Barrow Down -	24 8 36	65052
Ringwood - -	38 51 15	42415
Christ Church -	117 0 9	
Christ-Church - -	91 20 10	50242
Ringwood -	49 2 59	66503
Poole Steeple -	39 36 51	
Nine Barrow Down -	47 44 54	29399
Christ-Church -	25 39 58	50242
Poole Steeple -	106 35 8	
Nine Barrow Down -	48 33 16	83428
Christ-Church - -	81 4 0	63303
Hauton Gazebo -	50 22 44	
Nine Barrow Down -	25 50 30	23101
Christ-Church - -	12 49 0	45392
Brownsea Castle -	141 20 30	
Nine Barrow Down -	21 54 20	23101
Poole Steeple - -	47 15 12	11736
Brownsea Castle -	110 50 28	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ″ ′	
Christ-Church -	14 14 32	37604
Brownsea Castle - -	45 58 2	12868
Poole Heath east Station	119 47 26	
Poole Steeple - -	63 28 0	12682
Brownsea Castle -	61 51 0	12868
Poole Heath east Station	54 41 0	
Brownsea Castle -	107 49 2	11737
Christ-Church - -	12 51 2	50242
Poole Steeple - -	59 19 56	
Black Down - -	8 7 40	102511
Nine Barrow Down -	29 48 20	29158
Wareham Steeple -	142 4 0	
Christ-Church - -	41 58 0	25111
Hauton Gazebo -	20 37 0	47688
Maesbarrow - -	117 25 0	
Christ Church - -	18 22 0	13837
Maesbarrow - -	20 0 0	12748
House near Decoy Ponds	141 38 0	
Maesbarrow - -	5 53 0	28892
Hauton Gazebo -	8 53 0	19178
Cannon Hill - -	165 14 0	
Poole Heath - -	90 3 0	30130
Christ Church - -	38 41 0	48206
Old Harry - -	51 16 0	
Poole Heath - -	97 32 0	32481
Christ-Church -	37 34 0	52813
Stutland Signal Staff -	44 54 0	
Wareham Steeple -	58 3 0	20480
Black Down - -	10 44 0	93306
Woolbarrow Station -	111 13 0	
Poole Steeple - -	30 13 0	9919
Poole Heath - -	50 28 0	6467
Constitution Hill -	99 19 0	
Poole Steeple - -	96 1 30	8221
Poole Heath - -	31 7 0	15820
Brownsea Clump -	52 51 30	
Poole Heath - -	105 16 0	6462
Brownsea Castle -	23 10 0	15848
Constitution Hill -	51 34 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ″ ′	
Poole Steeple - -	59 47 0	11862
Constitution Hill -	68 58 0	10982
Lilliput House -	51 15 0	
Poole Steeple - -	65 13 0	15679
Constitution Hill -	76 48 0	14621
Lilliput Lookout -	37 59 0	
Constitution Hill -	112 37 0	19518
Brownsea Castle -	37 39 0	29496
Lytchet Beacon -	29 44 0	
Poole Heath - -	93 22 0	25787
Brownsea Castle -	60 48 30	29488
Lytchet Beacon -	25 49 30	
Poole Steeple - -	31 41 30	17088
Constitution Hill -	117 16 30	10100
Station on the Wimborne road from Poole -	31 2 0	
Lytchet Beacon -	30 55 0	15587
Constitution Hill -	52 30 0	10095
Station on the Wimb. road	96 35 0	
Wareham Steeple -	64 59 0	29960
Woolbarrow - -	73 57 0	28250
Lytchet Beacon -	41 4 0	
Wareham Steeple -	37 34 0	41949
Lytchet Beacon -	97 20 0	25787
Poole Heath -	45 6 0	
Wareham Steeple -	42 39 0	14328
Poole Heath -	17 10 30	32876
Black hill near Wareham	120 10 30	
Lytchet Beacon -	26 20 30	40288
Wareham Steeple -	110 54 0	19581
Corfe Castle -	42 45 30	
Poole Heath -	27 21 0	40910
Wareham Steeple -	73 22 30	19615
Corfe Castle -	79 16 30	
Wareham Steeple -	43 42 0	14948
Lytchet Beacon -	28 20 0	21759
Arne Clump -	107 58 0	
Woolbarrow -	133 58 30	17603
Wareham Steeple - -	21 10 30	35070
Black hill near Wareham	24 51 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	′ ° ″	
Black Hill - -	96 35 0	41431
Poole Heath - -	47 34 0	55764
Swyre Barrow - -	35 51 0	
Wingreen - -	10 38 14	125534
Nine Barrow Down -	73 32 14	24163
Creech Beacon -	95 49 32	
Wingreen - -	27 4 38	57250
Nine Barrow Down -	18 12 9	83422
Hauton Observatory -	134 43 13	
Ringwood - -	58 44 0	7946
Christ-Church -	10 3 30	38888
David's Hut - -	111 12 30	
Ringwood - -	48 50 0	32690
Christ-Church -	53 33 0	34930
Hembury Summer House	77 37 0	
Christ-Church -	38 59 0	38909
Hembury Summer House	79 10 0	24922
David's Hut -	61 51 0	
Ringwood - -	7 3 30	24435
Hembury Summer House	19 35 0	8958
Gibbet on Parley Common	153 21 30	
David's Hut - -	11 6 0	16881
Hembury Summer House	21 15 0	8967
Gibbet on Parley Common	147 39 0	
David's Hut - -	8 38 0	22298
Hembury Summer House	49 19 0	4413
Barrow near Hembury	122 3 0	
David's Hut -	17 0 0	28853
Barrow near Hembury -	122 7 0	9960
Cannon Hill - -	40 53 0	
Woolbarrow -	59 9 0	28829
Black Hill - -	83 30 0	24910
Musson Down -	37 21 0	
Black Hill -	36 54 0	33316
Musson Down -	94 57 0	20078
Houghton Clump -	48 9 0	
Woolbarrow -	48 13 0	30784
Musson Down -	70 5 0	24415
Milborne Obelisk -	61 42 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Woolbarrow -	104 20 30	16970
Wareham Steeple -	33 40 0	29657
Gallows Hill -	41 59 30	
Nine Barrow Down -	27 44 1	65661
Bullbarrow - -	32 25 49	56979
Frampton Obelisk -	119 50 10	
Wareham Steeple -	18 53 0	39070
Gallows Hill -	120 2 0	14606
Frampton Obelisk -	41 5 0	
Woolbarrow -	71 12 0	9330
Gallows Hill -	32 19 0	16522
Barrow South -	76 29 0	
Woolbarrow -	48 24 0	8283
Black Hill - -	27 6 0	13597
Bloxworth Steeple -	104 30 0	
Frampton Obelisk -	127 3 50	7117
Gallows Hill - -	16 43 40	19730
Black Knoll -	36 12 30	
Frampton Obelisk -	65 53 0	15022
Black Knoll -	85 55 0	13746
Wool Steeple -	28 12 0	
Gallows Hill -	8 42 0	25343
Black Knoll - -	144 14 0	6558
Winfrith Newburgh Steep.	27 4 0	
Wareham Steeple -	40 54 0	48851
Gallows Hill -	102 48 0	32799
High Chaldon -	36 18 0	
Wareham Steeple -	73 24 0	35093
Gallows Hill - -	52 31 0	29058
Rampart, Swyre Barrow	54 5 0	
Wareham Steeple -	60 14 30	28748
Gallows Hill - -	58 20 30	29319
Lulworth Castle -	61 25 0	
Wool Steeple -	24 17 0	24137
Black Knoll - -	129 45 0	12911
High Chaldon -	25 58 0	
High Chaldon -	81 28 30	23947
Black Knoll - -	68 26 0	25465
Knighton House -	30 5 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
High Chaldon -	138 21 30	6080
Black Knoll - -	13 2 0	17916
Barrow near W. Lulworth Flagstaff - -	28 36 30	
High Chaldon -	34 9 30	29758
Black Knoll - -	125 2 0	20406
Barrow near Aff-Piddle	20 48 30	
High Chaldon -	46 9 30	23549
Black Knoll - -	101 19 30	17323
Direction Post Knighton Down - -	32 31 0	
Nine Barrow Down -	15 28 23	109854
Black Down - -	54 29 40	36002
Wyke Regis Steeple -	110 1 57	
Nine Barrow Down -	7 54 33	103647
Black Down -	30 35 42	28022
Dorchester Steeple -	141 29 45	
Dorchester Steeple -	54 5 30	17048
Black Down - -	37 27 0	22705
Ridgeway Station -	88 27 30	
Black Down - -	51 3 30	14867
Wyke Regis Steeple -	23 27 0	29057
Ashton Ridge -	105 29 30	
Wyke Regis Steeple -	15 30 0	26699
Ashton Ridge -	64 59 0	7873
Ridgeway Hill - -	99 31 0	
Wyke Regis Steeple -	62 24 0	39090
Ridgeway Hill -	76 4 30	35690
Lulworth Flagstaff -	41 31 30	
Wyke Regis Steeple -	39 15 0	27583
Ashton Ridge - -	66 12 0	19074
Osmington Down -	74 33 0	
Osmington Down -	56 25 0	7487
Wyke Regis Steeple -	14 54 0	24257
Bincum Down Barrow -	108 41 0	
Osmington Down -	72 11 0	5597
Bincum Down Barrow -	42 42 0	7857
Preston Steeple -	65 7 0	
Ashton Ridge - -	17 8 0	27628
Wyke Regis Steeple -	71 56 0	8561
Barrow near Weymouth	90 56 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Black Down - -	44 19 0	52181
Ridgeway Hill - -	111 52 0	39281
East Signal Staff, Portland	23 49 0	
Black Down - -	49 6 30	56851
Ridgeway Hill - -	108 39 30	45361
Portland Spire - -	22 14 0	
Black Down - -	54 57 0	64130
Ridgeway Hill - -	105 3 30	54367
Portland Lighthouse -	19 59 30	
Dorchester Steeple -	54 51 0	42655
Ridgeway Hill - -	102 9 20	35677
Lulworth Flagstaff -	22 59 40	
Black Down - -	36 47 30	45618
Dorchester Steeple -	107 18 0	28615
Foxwell Flagstaff -	35 54 30	
Dorchester Steeple -	67 21 0	14739
Foxwell Flagstaff -	30 40 0	26669
Fire Beacon on Piddle Town Heath -	81 59 0	
Black Down - -	6 42 30	51679
Foxwell Flagstaff -	133 23 30	8307
Ower Moigne Steeple -	39 54 0	
Piddle Town Heath -	12 23 0	14452
Foxwell Flagstaff -	13 52 0	12931
Broad-Moyne - -	153 45 0	
Dorchester Steeple -	35 10 0	8299
Piddle Town Heath -	31 0 0	9280
West Stafford Steeple -	113 50 0	
Dorchester Steeple -	39 48 0	38386
Foxwell Flagstaff -	92 2 30	24587
Frampton Obelisk -	48 9 30	
Black Down - -	44 20 30	30983
Dorchester Steeple -	74 51 0	22435
Godmanstone Down -	60 48 30	
Black Down -	69 0 0	29941
Godmanstone Down	54 4 30	34518
Aggerdon Hill -	56 55 30	
Black Down - -	17 17 0	20673
Aggerdon Hill -	31 3 0	11908
Compton Barrow -	131 40 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Compton Barrow -	56 29 0	21200
Black Down - -	63 6 0	19819
Sea Barrow Clump -	60 25 0	
Compton Barrow -	19 30 0	35205
Sea Barrow Clump -	135 34 0	16787
Station on the right of the road from Sherborne to Dorchester - -	24 56 0	
Station right of road -	56 27 20	16368
Sea Barrow Clump -	60 25 30	15686
Dorchester Steeple -	63 7 10	
Compton Barrow -	30 3 0	24390
Sea Barrow Clump -	89 34 30	12213
Godmanstone Down Barrow	60 22 30	
Compton Barrow - -	49 27 0	17206
Sea Barrow Clump -	52 32 0	16472
Frampton Barrow -	78 1 0	
Godmanstone Down -	42 9 0	12190
Dorchester Steeple -	31 24 30	15697
Sea Barrow Clump -	106 26 30	
Aggerdon Hill -	39 52 0	12095
Compton Barrow -	71 18 0	8183
Long Bredy - -	68 50 0	
Frampton Barrow -	47 32 30	9962
Sea Barrow Clump -	37 2 0	12204
Godmanstone Down -	95 25 30	
Frampton Barrow -	15 52 30	6155
Sea Barrow Clump -	9 4 0	10682
Frampton Steeple -	155 3 30	
Frampton Barrow -	68 45 30	11909
Godmanstone Down -	63 2 0	12457
Clump of trees North -	48 12 30	
Black Down - -	59 13 0	18156
Aggerdon Hill - -	37 4 0	25878
Abbotsbury Flagstaff -	83 43 0	
Abbotsbury Flagstaff -	33 49 0	26013
Aggerdon Hill -	73 35 0	15093
Shipton Beacon -	72 36 0	
Shipton Beacon -	81 42 0	17027
Aggerdon Hill - -	53 8 0	21059
Puncknoll - -	45 10 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Puncknoll - -	34 47 30	15918
Aggerdon Hill - -	48 40 30	12094
Long Bredy - -	96 32 0	
Long Bredy -	32 37 0	6354
Puncknoll - -	17 57 30	11108
Cheney Litton Steeple -	129 25 30	
Puncknoll - -	25 30 0	36777
Shipton Beacon -	135 36 0	22690
Symondsbury Hill -	18 54 0	
Puncknoll - -	70 40 0	36786
Aggerdon Hill -	75 39 0	35830
Symondsbury Hill -	33 41 0	
Puncknoll - -	69 30 0	35372
Aggerdon Hill -	75 20 0	34248
Symondsbury Steeple -	35 10 0	
Puncknoll - -	37 36 30	5804
Shipton Beacon -	15 54 30	12924
Swyre Barrow - -	126 29 0	
Shipton Beacon -	78 52 0	10130
Swyre Barrow -	42 11 0	14802
North Hill - -	58 57 0	
Shipton Beacon -	38 49 0	13769
North Hill - -	93 58 0	8651
Bridport Market-house	47 13 0	
Swyre Barrow -	22 0 0	8008
North Hill - -	22 8 0	7962
Green Cliff - -	135 52 0	
Shipton Beacon -	16 5 0	10186
Swyre Barrow - -	41 59 0	4218
Berwick Farm - -	121 56 0	
Shipton Beacon - -	40 48 30	10151
Symondsbury Hill -	23 56 0	16352
North Hill -	115 15 30	
North Hill -	52 19 0	5127
Symondsbury Hill -	17 4 0	13827
Lookout House, Bridport Harbour - -	110 37 0	
Shipton Beacon -	8 27 0	3739
North Hill - -	4 53 0	6455
Shipton Steeple -	166 40 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
North Hill - -	29 35 0	3806
Symondsbury Hill -	8 12 0	13177
Bothenhampton Steeple	142 13 0	
Puncknoll - -	83 55 0	44945
Aggerdon Hill -	69 58 0	47569
Golden Cape Signal Staff	26 7 0	
Symondsbury Hill -	64 3 0	23550
Shipton Beacon -	59 48 0	24501
Warren Hill - -	56 9 0	
Symondsbury Hill -	40 52 0	34277
Shipton Beacon -	98 21 0	22668
Pegnorth - -	40 47 0	
Symondsbury Hill -	7 13 0	19313
Pegnorth - -	9 7 0	15347
Round Hill, near Milton	163 40 0	
Symondsbury Hill -	64 0 0	24790
Pegnorth - -	43 35 0	32318
Lewson Hill - -	72 25 0	
Symondsbury Hill -	40 52 0	24767
Warren Hill -	73 26 0	16906
Lewson Hill - -	65 42 0	
Symondsbury Hill -	20 30 0	33201
Warren Hill - -	122 59 30	13863
Oak Tree North of Warren Hill - -	36 30 30	

ART. VII. *Secondary Triangles for the Survey of Hampshire, Part of Somersetshire, and Part of Wiltshire.* *Plate* VII.

The Distances serving as Base Lines for the following Triangles are:

Dean Hill to	Beacon Hill - -	58086 Feet.
	Ringwood Steeple -	74367
	Farley Monument -	53239
	Southampton Spire -	74522
	Butser Hill - -	156122
	Highclere Beacon -	125805
Butser Hill to	Portsdown Hill -	52729
Wingreen to	Ringwood Steeple	87983
Beacon Hill to	Highclere Beacon -	98694
	Bradley Knoll -	135272
Mendip Hill to	Bradley Knoll -	61963
	Dundry Beacon -	69196

Dean Hill - -	42 53 0	60270
Ringwood Steeple -	53 37 50	50936
Lyndhurst Steeple -	83 29 10	
Dean Hill - -	71 6 40	54340
Beacon Hill - -	51 46 30	65445
New Station on Stockbridge Hill -	57 6 50	
Dean Hill - -	53 21 30	35462
Beacon Hill -	37 37 10	46614
Salisbury Spire -	89 1 20	
Dean Hill - -	23 17 30	53233
Stockbridge Hill -	75 29 50	21742
Farley Monument -	81 12 40	
Dean Hill - -	15 2 0	14981
Stockbridge Hill -	5 34 0	40059
Cadbury Beech - -	159 24 0	
Dean Hill - -	84 44 30	60275
Farley Monnment -	51 31 0	76677
Lyndhurst Steeple -	43 44 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Dean Hill - -	45 12 20	33950
Farley Monument -	39 24 40	37948
Heathcote's Pillar -	95 23 0	
Dean Hill - -	70 47 0	41880
Farley Monument -	45 4 0	55862
Caddenham Station -	64 9 0	
Dean Hill - -	39 25 20	83562
Farley Monument -	102 2 0	54256
Town Hill Telegraph	38 32 40	
Dean Hill - -	42 29 20	88921
Farley Monument -	101 36 10	61314
Nettle Heath Clump -	35 54 30	
Wingreen - -	8 42 48	87461
Ringwood Steeple -	83 24 25	13338
Moyls Court Summer House - -	87 52 47	
Ringwood Steeple -	52 39 30	15531
Moyls Court - -	72 24 0	12954
Picket Post Inn -	54 56 30	
Dean Hill - -	25 36 0	41874
Heathcote's Pillar -	101 54 0	18490
Caddenham Station -	52 30 0	
Dean Hill - -	130 56 0	10703
Heathcote's Pillar -	11 10 0	41753
Ayre's Summer House	37 54 0	
Dean Hill - -	28 10 0	32895
Heathcote's Pillar -	72 19 0	16298
Half Moon Clump -	79 31 0	
Dean Hill - -	5 46 0	50928
Heathcote's Pillar -	162 59 0	17485
Toot Hill Telegraph	11 15 0	
Heathcote's Pillar -	40 15 0	35268
Ayre's Summer House -	56 56 0	27191
Branshaw Telegraph -	82 49 0	
Branshaw Telegraph -	156 28 0	8255
Ayre's Summer House	5 25 0	34915
Mr. Harben's House	18 7 0	
Branshaw Telegraph -	56 54 0	30561
Ayre's Summer House	67 49 0	27712
Gallows Hill (Maze Hill),	55 17 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ″ ′	
Ayre's Summer House	109 3 0	24745
Gallows Hill - -	33 10 0	42754
Pustle Lodge -	37 47 0	
Ayre's Summer House	28 35 0	19683
Gallows Hill - -	42 5 0	14051
Clebury Rings -	109 20 0	
Heathcote's Pillar -	24 44 0	16303
Caddenham Station -	61 38 0	7752
Half Moon Clump -	93 38 0	
Heathcote's Pillar -	91 18 0	30024
Caddenham Station -	57 26 0	35616
White Parish Steeple	31 16 0	
Heathcote's Pillar -	79 24 0	19519
Caddenham Station -	52 10 0	24292
Rownham's SummerHouse	48 26 0	
Heathcote's Pillar -	90 43 0	41755
Caddenham Station -	65 31 0	45877
Ayre's Summer House	23 46 0	
Heathcote's Pillar -	95 8 0	17483
Caddenham Station -	40 58 0	26559
Toot Hill Telegraph -	43 54 0	
Gallows Hill -	56 5 0	13734
Clebury Rings -	60 44 0	13065
Downton Steeple -	63 11 0	
Farley Monument -	12 6 0	37949
Lyndhurst Steeple -	11 22 0	40362
Heathcote's Pillar -	156 32 0	
Farley Monument -	50 6 0	61313
Lyndhurst Steeple -	51 33 0	60061
Nettle Heath Clump -	78 21 0	
Farley Monument -	18 39 0	5589
Heathcote's Pillar -	3 8 0	32701
Farley Spire -	158 13 0	
Farley Monument -	105 44 0	44548
Heathcote's Pillar -	40 36 0	65889
White Flood Clump -	33 40 0	
Heathcote's Pillar -	13 2 0	34176
Lyndhurst Steeple -	47 29 0	10457
Minstead Steeple -	119 29 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Heathcote's Pillar -	23 32 0	34270
Lyndhurst Steeple -	56 50 0	16346
Stoney Cross Inn -	99 38 0	
Heathcote's Pillar -	88 57 0	17483
Lyndhurst Steeple -	23 35 0	43691
Toot Hill Telegraph -	67 28 0	
Dean Hill - -	51 15 20	53233
Southampton Spire -	45 13 0	58496
Farley Monument -	83 31 40	
Dean Hill - -	76 21 14	74367
Southampton Spire -	51 44 50	92027
Ringwood Steeple -	51 53 56	
Dean Hill - -	0 10 45	74762
Southampton Spire -	135 40 15	334
East Spire, *Southampton*	44 9 0	
Farley Monument -	32 1 0	76668
Southampton Spire -	99 6 0	41165
Lyndhurst Steeple -	48 53 0	
Dean Hill - -	7 47 0	59523
East Spire, *Southampton*	27 3 0	17726
Eling Steeple -	145 10 0	
Dean Hill - -	19 45 30	74761
Caddenham Station -	138 25 0	38078
East Spire, *Southampton*	21 49 30	
Dean Hill - -	8 34 40	88910
East Spire, *Southampton*	134 46 0	18678
Nettle Heath - -	36 39 20	
Dean Hill - -	13 46 0	33947
Eling Steeple - -	16 55 20	27753
Heathcote's Pillar -	149 18 40	
Heathcote's Pillar -	41 1 40	40415
Eling Steeple -	95 53 10	26670
Lyndhurst Steeple -	43 5 10	
Heathcote's Pillar -	95 15 0	7813
Eling Steeple - -	15 17 10	29513
Romsey Steeple -	69 27 50	
Heathcote's Pillar -	47 18 0	7816
Toot Hill Telegraph -	25 14 30	13472
Romsey Steeple - -	107 27 30	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
	° ′ ″	
Eling Steeple - -	114 19 0	7651
Romsey Steeple -	12 3 0	33399
Hunter's Inn - -	53 38 0	
Eling Steeple - -	113 50 0	13450
Hunter's Inn - -	43 14 0	17961
Upton Steeple -	22 56 0	
Farley Monument -	43 8 0	44566
Town Hill Telegraph -	54 30 0	37426
White Flood Clump -	82 22 0	
Farley Monument -	57 54 0	40220
White Flood Clump	55 46 0	41211
Stoneham Summer House	66 20 0	
Farley Monument -	13 3 0	26956
White Flood Clump -	18 24 0	19283
Ann's Hill Fire Beacon	148 33 0	
Farley Monument -	3 40 0	41076
White Flood Clump -	36 23 0	4428
Owstlebury Steeple	139 57 0	
Farley Monument - -	16 20 55	45975
White Flood Clump -	88 2 50	12948
Gander Down Sum. House	75 36 15	
Stoneham Summer House	75 19 0	24472
White Flood Clump	34 4 0	42261
Nettle Heath Clump	70 37 0	
Stoneham Summer House	27 19 0	40469
White Flood Clump -	74 12 0	19301
Ann's Hill Fire Beacon	78 29 0	
White Flood Clump -	7 27 0	42254
Town Hill Telegraph -	129 13 0	7071
Nettle Heath Clump -	43 20 0	
White Flood Clump -	82 50 30	25844
Town Hill Telegraph -	36 51 30	42751
Yew Tree, *Liquant Farm*	60 18 0	
White Flood Clump -	25 20 0	57788
Nettle Heath Clump -	111 58 0	26662
St. Margaret's Farm -	42 42 0	
White Flood Clump -	103 50 40	24862
Nettle Heath Clump -	26 36 0	53915
Beacon Hill, near Exton	49 33 20	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
White Flood Clump -	108 16 0	19269
Nettle Heath Clump -	20 45 0	51659
Ann's Hill Fire Beacon -	50 59 0	
White Flood Clump -	97 42 20	38513
Nettle Heath Clump -	38 49 40	60871
Old Winchester Hill -	43 28 0	
Ann's Hill Fire Beacon -	18 43 0	57402
Nettle Heath Clump -	98 24 0	18619
East Spire, *Southampton*	62 53 0	
Ann's Hill Fire Beacon -	49 36 0	12511
White Flood Clump - -	40 27 0	14686
Barrow above Longwood Bottom - -	89 57 0	
Ann's Hill Fire Beacon -	59 41 30	24934
White Flood Clump -	72 42 30	22545
Stoke Hill Station -	47 36 0	
White Flood Clump -	78 16 0	12950
Beacon Hill - -	29 42 0	25591
Gander Down Summer House - - -	72 2 0	
Ann's Hill Fire Beacon -	86 54 0	5422
Barrow, *Longwood Bottom*	23 54 0	13364
Winchester Cathedral -	69 12 0	
White Flood Clump -	142 14 0	12925
Stoke Hill Station -	13 35 0	33705
Gander Down Summer House - -	24 11 0	
White Flood Clump -	25 31 0	25294
Stoke Hill Station -	91 29 0	10900
Obelisk on Cranbury Common - -	63 0 0	
Farley Monument -	25 6 30	84105
Nettle Heath Clump -	112 35 0	38652
WickhamLodgeTelegraph	42 18 30	
Farley Monument -	40 52 30	98230
Nettle Heath Clump -	101 24 0	65577
Broadhalfpenny Windmill	37 43 30	
Farley Monument -	44 7 0	111405
Nettle Heath Clump -	103 32 0	79766
Chalkdon Telegraph -	32 21 0	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
Farley Monument -	21 51 30	82827
WickhamLodgeTelegraph	76 48 0	31674
Old Winchester Hill -	81 20 30	
Old Winchester Hill -	19 28 0	31033
WickhamLodgeTelegraph	76 53 0	10621
Shirley Heath Windmill	83 39 0	
Old Winchester Hill -	87 25 0	28950
WickhamLodgeTelegraph	43 36 0	41937
Chalkdon Telegraph -	48 59 0	
Old Winchester Hill -	22 39 0	39995
WickhamLodgeTelegraph	108 46 30	16268
Southwick Park House -	48 34 30	
Old Winchester Hill	13 15 0	37978
WickhamLodgeTelegraph	121 18 0	10187
Fir Tree near Wickham	45 27 0	
Old Winchester Hill -	88 10 30	13971
WickhamLodgeTelegraph	24 5 30	34209
Beacon Hill near Exton	67 44 0	
Old Winchester Hill -	38 20 30	47263
WickhamLodgeTelegraph	100 25 30	29811
Portsdown Hill Telegraph	41 14 0	
Beacon Hill - -	43 20 30	34756
Old Winchester Hill -	115 21 30	26398
Froxfield Steeple -	21 18 0	
Beacon Hill - -	26 9 30	5734
Old Winchester Hill -	15 59 0	9179
Exton Steeple - -	137 51 30	
Beacon Hill - -	42 10 30	7898
Old Winchester Hill -	33 9 0	9697
Meon Stoke - -	104 40 30	
Beacon Hill - -	87 6 0	14976
Old Winchester Hill -	48 32 30	19958
Brockwood House -	44 21 30	
Beacon Hill - -	84 41 30	29052
Old Winchester Hill -	68 41 30	31051
Shirley Windmill -	26 37 0	
Beacon Hill - -	83 35 0	36807
Old Winchester Hill -	74 55 0	37882
Fir Tree, *Wickham Tollgate* - - -	21 30 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Beacon Hill - -	° ′ ″ 56 41 30	18678
Old Winchester Hill -	76 37 0	16046
Soberton Steeple -	46 41 30	
Beacon Hill - -	52 58 0	46762
Old Winchester Hill -	110 49 0	39936
Thistlewait's House -	16 13 0	
White Flood Clump -	28 32 0	25849
Beacon Hill - -	80 6 30	12534
Liquant Yew Tree -	71 31 30	
Beacon Hill - -	82 55 0	13976
Liquant Yew Tree -	52 4 0	17584
Old Winchester Hill -	45 1 0	
Beacon Hill - -	26 6 30	16265
Liquant Yew Tree -	106 8 30	7451
Hill near Waltham -	47 45 0	
Liquant Yew Tree -	21 44 0	12173
Hill near Waltham -	130 33 0	5932
Bishops Waltham Steeple	27 43 0	
Hill near Waltham -	97 5 0	6529
Bishops Waltham Steeple	43 53 0	9348
Waltham House -	39 2 0	
Beacon Hill - -	97 21 0	31055
Nettle Heath Clump -	28 1 0	65569
Broadhalfpenny Windmill	54 38 0	
Old Winchester Hill -	24 1 30	18179
Chalkdon Telegraph -	30 56 30	14394
Broadhalfpenny Windmill	125 2 0	
Wickham LodgeTelegraph	26 14 30	60209
Chalkdon Telegraph -	114 23 0	29229
Stanstead Monument -	39 22 30	
WickhamLodgeTelegraph	56 47 30	29794
Chalkdon Telegraph -	44 13 0	35746
Portsdown Hill Telegraph	78 59 30	
WickhamLodgeTelegraph	48 58 0	31201
Chalkdon Telegraph	47 39 0	31846
Purbrook Park House	83 23 0	
WickhamLodgeTelegraph	60 2 0	27108
Chalkdon Telegraph -	39 35 30	36849
Portsdown Windmill -	80 22 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Farley Monument -	° ′ ″ 15 48 30	111234
Broadhalfpenny Windmill	106 11 30	31555
Portsdown Windmill -	58 0 0	
Farley Monument -	15 44 0	84102
Broadhalfpenny Windmill	52 51 0	28612
WickhamLodgeTelegraph	111 25 0	
Farley Monument -	19 3 0	111258
Chalkdon Telegraph -	80 15 0	36846
Portsdown Windmill -	80 42 0	
Beacon Hill - -	28 44 0	55016
Broadhalfpenny Windmill	123 1 0	31542
Portsdown Windmill -	28 15 0	
Beacon Hill - -	26 2 30	56669
Broadhalfpenny Windmill	128 36 0	31834
Portsdown Telegraph -	25 21 30	
WickhamLodgeTelegraph	65 58 0	28611
Portsdown Telegraph -	55 13 0	31815
Broadhalfpenny Windmill	58 49 0	
Chalkdon Telegraph -	37 1 0	8256
Broadhalfpenny Windmill	32 30 0	9251
Catherington Windmill	110 29 0	
Farley Monument -	15 46 0	73493
Broadhalfpenny Windmill	35 59 0	33988
Shirley Windmill -	128 15 0	
Broadhalfpenny Windmill	61 34 0	9253
Portsdown Telegraph -	16 32 0	28592
Catherington Windmill	101 54 0	
Chalkdon Telegraph -	62 1 0	30831
Stanstead Monument -	61 32 0	30972
Beacon Hill Telegraph -	56 27 0	
Portsdown Telegraph -	22 1 0	60900
Chalkdon Telegraph -	132 13 0	30826
Beacon Hill Telegraph -	25 46 0	
Portsdown Telegraph -	66 53 0	27517
Chalkdon Telegraph -	45 25 0	35533
Hemsworth Chapel -	67 42 0	
Chalkdon Telegraph -	134 37 0	28950
Beacon Hill Telegraph -	21 56 20	55157
Old Winchester Hill -	23 26 40	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Beacon Hill Telegraph	41 59 10	42346
Old Winchester Hill -	50 6 20	36922
Froxfield Windmill -	87 54 30	
Farley Monument -	28 47 0	94247
Old Winchester Hill -	89 43 0	45380
Newton Windmill -	61 30 0	
Chalkdon Telegraph -	86 50 0	35532
Beacon Hill Telegraph	50 52 0	45736
Hemsworth Chapel -	42 18 0	
Beacon Hill Telegraph	44 7 40	63760
Old Winchester Hill -	78 3 20	45376
Newton Windmill -	57 49 0	
Butser Hill - -	63 9 4	156119
Portsdown Hill Station	97 16 28	140419
Dean Hill - -	19 34 28	
Dean Hill - -	15 50 12	168055
Butser Hill - -	96 54 20	46197
Havant Steeple -	67 15 28	
Dean Hill - -	13 16 6	178357
Butser Hill - -	113 7 0	44509
Bourne Steeple -	53 36 54	
Beacon Hill Telegraph	31 30 0	75002
Froxfield Windmill -	118 52 0	44748
Binstead Spire - -	29 38 0	
Beacon Hill Telegraph	40 28 0	62614
Froxfield Windmill -	97 25 0	40980
Woolmer Forest Clump	42 7 0	
Newton Windmill -	92 27 30	36890
Beacon Hill Telegraph	29 25 30	75019
Binstead Spire -	58 7 0	
Beacon Hill Telegraph	7 0 0	67453
Binstead Spire -	45 34 0	11512
East Worldham Steeple	127 26 0	
Beacon Hill Telegraph	8 54 0	87480
Binstead Spire -	130 9 0	17706
Large Beech Tree, *Froyle*	40 57 0	
Beacon Hill Telegraph	15 54 0	67471
Woolmer Forest Clump	97 1 0	18624
East Worldham Steeple	67 5 0	

Names of Stations and intersected Objects	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Beacon Hill Telegraph -	4 41 0	59011
Woolmer Forest Clump	51 44 0	6136
Headley Spire - -	123 35 0	
Beacon Hill Telegraph	13 51 0	49112
Woolmer Forest Clump	38 13 0	19004
Bramshot Spire -	127 56 0	
Beacon Hill Telegraph	11 16 30	27541
Woolmer Forest Clump	8 36 0	36010
Clump of Trees near the Flying Bull Inn.	160 7 30	
Beacon Hill Telegraph -	29 46 0	49115
East Worldham Steeple	44 29 0	34799
Bramshot Spire -	105 45 0	
Beacon Hill Telegraph	20 34 0	59019
East Worldham Steeple	59 31 0	24059
Headley Spire - -	99 55 0	
East Worldham Steeple	70 0 0	24127
Woolmer Forest Clump	65 25 0	24932
Bentley Steeple -	44 35 0	
East Worldham Steeple	7 12 0	11976
Woolmer Forest Clump	12 33 0	6907
Cricket Inn, *Kingsley*	160 15 0	
East Worldham Steeple	29 7 0	37346
Woolmer Forest Clump	127 37 0	22941
LargeHouse near Bramshot	23 16 0	
East Worldham Steeple	60 51 0	20209
Binstead Spire -	84 36 0	17728
Large Beech Tree, *Froyle*	34 33 0	
East Worldham Steeple	57 29 0	19882
Binstead Spire -	87 11 0	16785
Large Ash Tree, *Froyle*	35 30 0	
East Worldham Steeple	88 2 0	6350
Binstead Spire -	29 20 0	12955
Station South of Alton	62 38 0	
East Worldham Steeple	102 49 0	11988
Binstead Spire -	39 31 0	18370
Alton Spire - -	37 40 0	
Binstead Spire - -	2 35 0	16784
Large Beech Tree -	38 30 0	1215
Large Ash Tree -	138 55 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Large Beech Tree -	18 32 0	35706
Beacon Hill Telegraph	11 57 0	54813
Selbourne Steeple -	149 31 0	
Station South of Alton	147 36 30	6060
Binstead Spire - -	10 11 0	18362
Alton Spire - -	22 12 30	
Station South of Alton	74 7 0	14759
Binstead Spire -	57 52 0	16763
Large Ash Tree - -	48 1 0	
Gander Down Sum. House	124 28 40	23020
Farley Monument -	17 49 40	61982
Alresford Steeple -	37 41 40	
Gander Down Sum. House	51 20 0	23311
Alresford Steeple -	65 5 0	20069
Yew Tree Clump, *Hitchen*	63 35 0	
Gander Down Sum. House	5 7 0	25553
Alresford Steeple -	136 51 0	3332
Old Alresford Steeple	38 2 0	
Gander Down Sum. House	17 25 0	32619
Alresford Steeple -	129 43 0	12697
Abbotsdown Barrow -	32 52 0	
Gander Down Sum. House	30 38 0	23434
Alresford Steeple -	76 33 0	12277
Stoke Down, *Large Barrow* - - -	72 49 0	
Gander Down Sum. House	46 12 0	23325
Old Alresford Steeple -	60 48 0	19285
Yew Tree Clump -	73 0 0	
Alresford Steeple -	53 9 0	12679
Stoke Down - -	65 16 0	11171
Abbotsdown Barrow -	61 35 0	
Alresford Steeple -	101 38 0	9675
Abbotsdown Barrow	32 55 0	17438
Ovington Steeple -	45 27 0	
Alresford Steeple -	118 42 0	6152
Abbotsdown Barrow	19 2 0	16547
Bishop's Sutton Steeple	42 16 0	
Beacon Hill - -	62 13 0	81711
Highclere Beacon -	50 1 30	94336
Farley Monument -	67 45 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Beacon Hill - -	76 55 0	19096
Highclere Beacon -	11 9 0	96187
Mallets Grove, Building	91 56 0	
Beacon Hill - -	18 44 0	56816
Highclere Beacon -	22 7 20	48455
Andover Steeple -	139 8 40	
Beacon Hill - -	19 37 0	17663
Highclere Beacon -	4 8 0	82270
Thruxton Hill, *Small Tree*	156 15 0	
Beacon Hill - -	50 33 0	45256
Highclere Beacon -	26 33 0	78183
Danesbury Camp -	102 54 0	
Beacon Hill - -	26 24 20	134300
Highclere Beacon -	113 2 40	60304
Windmill Clump, near Dummer - -	42 33 0	
Beacon Hill - -	84 6 0	75782
Highclere Beacon -	39 40 0	118092
Milk Hill, *Thorn* -	56 14 0	
Beacon Hill - -	2 20 0	103990
Highclere Beacon -	140 54 0	6713
Buryclere, *Small Clump*	36 46 0	
Beacon Hill - -	29 5 0	31734
Highclere Beacon -	12 15 50	72618
Centre Clump on Windmill Hill near Ludgershall - -	138 39 10	
Beacon Hill - -	26 48 0	108764
Highclere Beacon -	88 7 0	49066
Popham Beacon - -	65 5 0	
Beacon Hill - -	23 56 0	50821
Highclere Beacon -	21 32 10	56163
Chute Down Ash Tree	134 31 50	
Beacon Hill - -	24 56 0	57596
Highclere Beacon -	27 35 20	52427
Tidcombe Down Ash Tree	127 28 40	
Highclere Beacon	21 20 13	212343
Dean Hill - -	133 15 34	106092
Wingreen - -	25 24 13	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
Highclere Beacon -	84 34 50	30295	Beacon Hill - -	74 27 0	50819
Dean Hill - -	13 51 40	125890	Danesbury Camp -	57 8 0	58289
Walbury Intrenchment	81 33 30		Ash Tree, *Chute Common*	48 25 0	
Highclere Beacon -	107 39 0	30297	Beacon Hill - -	57 18 0	17651
Farley Monument -	15 35 0	107472	Mallet's Grove -	57 14 0	17664
Walbury Intrenchment	56 46 0		Thruxton Hill, *Small Tree*	65 28 0	
Highclere Beacon -	68 21 0	32512	Beacon Hill - -	105 51 0	24259
Walbury Intrenchment	58 48 0	35328	Mallet's Grove -	42 13 0	34730
Newbury Steeple -	52 51 0		Tidworth Steeple -	31 56 0	
Highclere Beacon -	62 41 0	39121	Danesbury Camp -	30 56 0	29580
Walbury Intrenchment	70 27 0	36885	Andover Steeple -	72 45 0	15921
Donnington Castle -	46 52 0		Weyhill Steeple -	76 19 0	
Highclere Beacon -	54 15 0	32377	Beacon Hill - -	114 29 0	36093
Walbury Intrenchment	66 35 0	28635	Mallet's Grove -	43 58 0	47314
Uphurstborne Windmill	59 10 0		Pollard, near Druid's Head	21 33 0	
Highclere Beacon -	55 47 0	9257	Beacon Hill - -	103 41 0	18601
Walbury Intrenchment	16 58 0	26231	Mallet's Grove -	37 34 0	29643
Lord Carnarvon's Temple	107 15 0		Tidworth Summer House	38 45 0	
Highclere Beacon -	51 24 0	34841	Beacon Hill - -	91 23 0	58410
Walbury Intrenchment	72 33 0	28543	Mallett's Grove -	70 39 0	61889
Lord Craven's House -	56 3 0		Conholt Lodge -	17 58 0	
Highclere Beacon -	10 18 0	30925	Beacon Hill - -	60 19 0	12387
Walbury Intrenchment	91 21 0	5531	Mallet's Grove -	39 42 0	16847
West Woodhay Steeple	78 21 0		Parkhouse Inn -	79 59 0	
Beacon Hill - -	31 49 0	56797	Highclere Beacon -	5 40 30	39126
Danesbury Camp -	95 44 0	30094	Newbury Steeple -	148 56 0	7497
Andover Steeple -	52 27 0		Donnington Castle -	25 23 30	
Beacon Hill - -	24 41 0	49400	Walbury Intrenchment	4 47 0	23316
Danesbury Camp -	89 12 0	20669	Newbury Steeple -	9 8 0	12248
Bury Hill Clump -	66 7 0		Knborne Steeple -	166 5 0	
Beacon Hill - -	79 39 0	31736	Beacon Hill - -	91 21 0	31717
Danesbury Camp -	38 17 0	50391	Farley Monument -	21 2 0	88345
Windmill Hill near Ludgershall - -	62 4 0		Windmill Hill, near Ludgershall -	67 37 0	
Beacon Hill - -	12 48 0	57806	Beacon Hill - -	107 58 0	26665
Danesbury Camp -	130 57 0	16956	Farley Monument -	15 45 0	93445
Oak Tree, *Fullerton Farm*	36 15 0		Chidbury Station -	56 17 0	
Beacon Hill - -	8 27 0	38245	Highclere Beacon -	38 51 0	37391
Danesbury Camp -	37 7 0	9313	Danesbury Camp -	25 33 0	54381
Barrow near five mile stone	134 26 0		Tangley Clump -	115 36 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Highclere Beacon -	114 21 0	6707
Danesbury Camp -	4 19 0	81178
Burghclere, *Small Clump*	61 20 0	
Highclere Beacon -	61 34 0	49080
Danesbury Camp -	38 13 0	69766
Popham Beacon -	80 13 0	
Highclere Beacon -	84 7 0	14567
Danesbury Camp -	10 42 0	78047
Hanes Warren Clump	85 11 0	
Highclere Beacon -	23 52 30	30734
Danesbury Camp -	13 57 0	51601
Lord Portsmouth's House	142 10 30	
Highclere Beacon -	18 35 30	36668
Danesbury Camp -	15 4 0	44974
Arch Lodge - -	146 20 30	
Beacon Hill - -	16 36 0	26656
Windmill Hill -	50 56 0	9808
Chidbury Hill Station -	112 28 0	
Beacon Hill - -	48 19 0	42358
Windmill Hill - -	83 35 0	31833
Uphaven Down Clump	48 6 0	
Beacon Hill - -	32 5 0	36110
Windmill Hill - -	86 37 0	19213
Everley Windmill -	61 18 0	
Windmill Hill -	27 25 0	22454
Danesbury Camp -	18 45 0	32166
Direction Post on the Devizes Road - -	133 50 0	
Windmill Hill - -	18 18 0	53906
Danesbury Camp -	92 40 0	16944
Oak Tree, *Fullerton Farm*	69 2 0	
Windmill Hill - -	10 49 0	16588
Danesbury Camp -	5 13 0	34239
Kimpton Windmill -	163 58 0	
Windmill Hill -	90 5 0	20048
Danesbury Camp -	21 41 0	54160
Chute Steeple - - -	68 14 0	
Windmill Hill -	64 34 0	20727
Danesbury Camp -	24 17 0	45516
Chute Lodge -	91 9 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Windmill Hill -	59 32 0	25449
Danesbury Camp -	30 20 0	43433
Barrow, North of Beacon Hill - - -	90 8 0	
Beacon Hill - -	34 6 0	58370
Thruxton Hill - -	133 9 0	44854
Conholt Lodge -	12 45 0	
Chidbury Hill - -	117 19 0	12614
Windmill Hill - -	35 42 0	19206
Everley Windmill -	26 59 0	
Chidbury Hill -	61 34 0	16469
Windmill Hill - -	82 16 0	14615
Collingbourne Windmill	36 10 0	
Uphaven Down Clump	146 56 0	33894
Windmill Hill -	17 4 0	63013
Milk Hill, *Thorn* -	16 0 0	
Windmill Hill - -	6 48 0	69115
Fullerton Farm, *Oak*	150 56 0	16844
Barrow, near the six mile stone - - -	22 16 0	
Windmill Hill - -	12 49 0	47884
Fullerton Farm, *Oak*	55 49 0	12841
Barrow, South of Andover	111 22 0	
Danesbury Camp -	19 56 0	31768
Fullerton Farm, *Oak*	140 1 0	16855
Barrow near the six mile stone - - -	20 3 0	
Danesbury Camp - -	23 28 0	26491
Fullerton Farm, *Oak* -	124 52 0	12857
Barrow, South of Andover	31 40 0	
Danesbury Camp -	74 3 0	29335
Chute Common, *Ash* -	29 19 0	57606
Mallet's Grove -	76 38 0	
Danesbury Camp -	107 55 0	39702
Chute Common, *Ash* -	28 11 0	79986
Crawley Clump -	43 54 0	
Danesbury Camp -	6 29 0	58261
Chute Common, *Ash* -	86 31 0	6591
Chute Common Barrow	87 0 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″				
Direction Post -	39 17 0	19750	Beacon Hill - -	55 1 0	31739
Danesbury Camp -	36 32 0	21006	Milk Hill, *Thorn* -	24 18 0	63191
Grateley Spire - -	104 11 0		Windmill Hill -	100 41 0	
Direction Post -	46 50 0	26160	Beacon Hill - -	47 34 0	32882
Windmill Hill - -	76 34 0	19617	Milk Hill, *Thorn* -	24 21 30	58842
Chute Common, *Ash* -	56 36 0		Neath Barrow - -	108 4 30	
Direction Post -	160 58 0	10400	Beacon Hill - -	78 13 0	31730
Chute Common, *Ash* -	5 23 0	36151	Red Horn Clump -	30 32 0	61139
Amport Spire - -	13 39 0		Windmill Hill -	71 15 0	
Direction Post -	97 50 0	8083	Beacon Hill - -	22 40 0	23490
Danesbury Camp -	13 32 0	34217	Red Horn Clump -	13 35 0	38544
Kimpton Windmill -	68 38 0		Knighton, Long Barrow	143 45 0	
Chute Common, *Ash*	134 50 0	6615	Beacon Hill - -	38 48 0	63979
Beacon Hill - -	4 50 0	55682	Red Horn Clump -	76 58 0	41149
Chute Common, Barrow	40 20 0		Chittern Windmill -	64 14 0	
Fullerton Farm, *Oak* -	13 32 0	8251	Beacon Hill - -	19 22 0	81169
Barrow South of Andover	21 48 0	5199	Red Horn Clump -	122 56 0	32071
Clatford Steeple -	144 40 0		Ann's Hill Building	37 42 0	
Chute Common, *Ash* -	53 11 0	73376	Beacon Hill - -	24 24 0	32869
Beacon Hill - -	83 21 0	59139	Red Horn Clump -	25 56 0	32211
Red Horn, Clump -	43 28 0		Neath Barrow -	130 40 0	
Chute Common, *Ash* -	16 37 0	11004	Windmill Hill - -	69 46 0	45831
Chute Common, Barrow	141 24 0	5044	Red Horn Clump -	43 31 0	62453
Heydon Hill Clump -	21 59 0		Lord Elbury's Monument	66 43 0	
Beacon Hill - -	5 51 0	57587	Windmill Hill -	76 7 0	40580
Chute Common Barrow	105 18 0	6085	Red Horn Clump -	37 28 0	64762
Tidcombe Down, *Ash*	68 51 0		Summer House -	66 25 0	
Tidcombe Down, *Ash*	49 42 0	76839	Milk Hill, *Thorn* -	67 9 0	21976
Beacon Hill - -	82 20 0	59131	Red Horn Clump -	41 14 9	30724
Red Horn Clump -	47 58 0		Bishop's Canning Spire	71 37 0	
Beacon Hill - -	65 0 0	75790	Milk Hill, *Thorn* -	10 17 0	42711
Chute Common Barrow	71 0 0	72627	Red Horn Clump -	143 43 0	12884
Milk Hill, *Thorn* -	44 0 0		Ellbarrow - -	26 0 0	
Beacon Hill - -	60 10 0	50782	Milk Hill, *Thorn* -	79 24 0	23535
Milk Hill, *Thorn* -	41 5 0	67034	Red Horn Clump -	40 16 0	35790
Chute Common, *Ash*	78 45 0		Pewsey Steeple -	60 20 0	
Beacon Hill - -	23 11 0	59143	Milk Hill, *Thorn* -	95 48 0	26121
Milk Hill, *Thorn* -	47 23 0	31639	Red Horn Clump -	37 10 0	43016
Red Horn Clump -	109 26 0		Pewsey Windmill -	47 2 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Milk Hill, *Thorn* -	90 16 0	38007
Red Horn Clump -	50 4 0	49566
Easton Clump -	39 40 0	
Milk Hill, *Thorn* -	59 24 0	11695
Red Horn Clump -	21 24 0	27588
Wilcot Hill - -	99 12 0	
Milk Hill, *Thorn* -	52 0 0	33384
Red Horn Clump -	67 9 0	28548
Devizes Spire -	60 51 0	
Tidcombe Down -	52 59 0	34428
Red Horn Clump -	26 6 0	62484
Lord Elbury's Monument	100 55 0	
Milk Hill, *Thorn* -	13 13 0	36570
Devizes Spire - -	104 51 0	8650
Pottern Hill, *Tree* -	61 56 0	
Milk Hill, *Thorn* -	22 7 0	42938
Ellbarrow - -	79 43 0	16430
Gibbet Knoll - -	78 10 0	
Ellbarrow - -	25 48 0	17437
Gibbet Knoll -	84 30 0	7624
Hurshfont Hill -	69 42 0	
Milk Hill, *Thorn* -	20 0 0	23510
Wilcot Hill - -	142 17 0	13144
Pewsey Steeple -	17 43 0	
Milk Hill, *Thorn* -	36 24 0	26099
Wilcot Hill - -	121 1 0	18071
Pewsey Windmill - -	22 35 0	
Milk Hill, *Thorn* -	18 42 0	27944
Wilcot Hill -	148 46 0	17278
Rushall Steeple - -	12 32 0	
Milk Hill, *Thorn* -	90 7 0	13971
Wilcot Hill - -	50 0 0	18238
Ashington Steeple	39 53 0	
Highclere Beacon -	92 23 0	22483
Donnington Castle -	29 17 0	45926
Freemantle Park, *Fir* -	58 20 0	
Highclere Beacon -	26 59 0	36639
Freemantle Park -	121 27 0	19487
Cot House on Baughurst Common - -	31 34 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	′ ° ″	
Highclere Beacon -	6 21 0	38315
Freemantle Park -	34 7 0	19430
Burghclere Steeple -	139 32 0	
Highclere Beacon -	66 22 0	27397
Freemantle Park -	65 23 0	27608
Greenham Direction Post	48 15 0	
Highclere Beacon -	11 38 20	31904
Freemantle Park -	141 48 0	10144
Woolverton Steeple -	26 33 40	
Highclere Beacon -	15 55 40	41752
Freemantle Park -	147 2 0	21056
Baughurst Steeple -	17 2 20	
Highclere Beacon -	27 29 0	22034
Greenham Direction Post	52 20 0	12846
Ilchingswell Windmill	100 11 0	
Freemantle Park -	81 39 0	21045
Greenham Direction Post	40 18 0	32192
Baughurst Steeple -	58 3 0	
Highclere Beacon -	63 21 0	46164
Fangley Clump -	67 59 0	44506
Long Parish middle Clump	48 40 0	
Highclere Beacon -	18 34 0	5451
Fangley Clump -	3 5 0	32279
Sidown Barrow -	158 21 0	
Milk Hill, *Thorn* -	71 35 50	43643
Tidcomb Down, *Asb*	37 31 10	67994
Up Ogbourne Barrow -	70 53 0	
Up Ogbourne Barrow	29 33 0	22297
Tidcombe Down, *Asb*	12 45 0	49826
Station S. of Marlborough	137 42 0	
Milk Hill, *Thorn* -	2 54 10	67707
Chute Common Barrow	34 18 0	6085
Tidcombe Down, *Asb*	142 47 50	
Station S. of Marlborough	48 28 0	22461
Up Ogbourne Barrow	66 14 0	16372
Totterdown Clump -	65 18 0	
Station S. of Marlborough	26 8 0	4178
Totterdown Clump -	5 37 0	18801
St. Peter's Steeple, Marlborough - -	148 15 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Highclere Beacon - -	53 11 40	34735
Uphursbourne Windmill	67 25 0	30121
Gibbet on Ham Hill -	59 23 20	
Highclere Beacon - -	48 43 0	38855
Uphursbourne Windmill	77 0 0	29966
Buttermire Hill -	54 17 0	
Uphursbourne Windmill	18 13 0	29948
Walbury Intrenchment	88 51 0	9364
Buttermire Hill -	72 56 0	
Walbury Intrenchment	91 59 10	17437
Buttermire Hill -	60 13 50	20076
Kintbury Steeple -	27 47 0	
Highclere Beacon -	14 52 0	58394
Gibbet on Ham Hill -	145 23 0	26373
Station near Hungerford	19 45 0	
Station near Hungerford	157 30 0	3040
Gibbet on Ham Hill -	2 17 0	29205
Hungerford Steeple -	20 13 0	
Tidcombe Down, *Ash*	77 45 0	23529
Up Ogbourne Barrow -	20 3 0	67067
Buttermire Hill -	82 12 0	
Up Ogbourne Barrow -	22 56 0	62443
Buttermire Hill -	68 33 0	26142
Tidcombe Down, *Thorn*	88 31 0	
Tidcombe Down, *Ash* -	43 17 50	23512
Highclere Beacon -	24 32 25	38823
Buttermire Hill -	112 9 45	
Tidcombe Down, *Ash* -	86 34 0	23522
Lord Elbury's Monument	35 25 0	40516
Buttermire Hill - -	58 1 0	
Buttermire Hill -	13 39 0	26139
Tidcombe Down, *Ash*	106 57 0	6449
Tidcombe Down, *Thorn*	59 24 0	
Tidcombe Down, *Thorn*	58 55 0	55807
Buttermire Hill - -	93 12 0	47868
Albury Steeple - -	27 53 0	
Tidcombe Down, *Thorn*	3 28 20	31064
Buttermire Hill -	158 52 0	5218
Gibbet on Ham Hill	17 39 40	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ″ ′	
Tidcombe Down, *Thorn*	65 33 20	21187
Gibbet on Ham Hill -	40 51 40	29482
Great Bedwin Steeple -	73 35 0	
Great Bedwin Steeple	141 46 0	7760
Tidcombe Down, *Thorn*	9 59 0	27702
Little Bedwin Spire -	28 15 0	
Buttermire Hill -	87 9 0	5225
Uphursbourne Windmill	9 58 0	30152
Gibbet on Ham Hill -	82 53 0	
Highclere Beacon -	31 13 0	69288
Popham Beacon -	105 50 0	37326
Crawley Clump -	42 57 0	
Highclere Beacon -	50 0 10	27094
Popham Beacon -	33 15 0	37855
Hannington Steeple -	96 44 50	
Highclere Beacon -	13 53 0	33124
Popham Beacon -	25 10 0	18690
Knoll Hill, *South Ash*	140 57 0	
Highclere Beacon -	21 37 30	56715
Popham Beacon -	99 54 30	21218
Cranborne Clump -	58 28 0	
Highclere Beacon -	45 3 0	19206
Popham Beacon -	20 57 0	38016
Egbury Camp -	114 0 0	
Highclere Beacon - -	9 37 0	56692
Crawley Clump -	35 16 0	16403
Cranborne Clump -	135 7 0	
Highclere Beacon -	5 16 0	24845
Knoll Hill, *Ash* -	15 13 0	8688
Direction Post, King's-sclose Road -	159 31 0	
Popham Beacon -	37 34 0	16607
Cranborne Clump -	51 30 0	12938
Stoke Charity Steeple -	90 56 0	
Popham Beacon -	58 24 0	18672
Hannington Steeple -	29 32 0	32263
Knoll Hill, *South Ash*	92 4 0	
Popham Beacon - -	40 37 0	13555
Hannington Steeple -	17 45 0	28944
Laverstock Barrow -	121 38 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Crawley Clump -	20 34 0	24764
Popham Beacon -	31 36 0	16602
Stoke Charity Steeple -	127 50 6	
Windmill Hill - -	33 13 40	10303
Beacon Hill - -	2 34 20	125808
Biggs Farm, *Ash Tree*	144 12 0	
Windmill Hill - -	25 59 0	4818
Biggs Farm, *Ash Tree* -	19 28 0	6334
Dummer Steeple -	134 33 0	
Windmill Hill -	29 21 0	23676
Biggs Farm, *Ash Tree*	131 41 0	15538
South Litchfield Barn -	18 58 0	
Clay Hill Barrow - -	9 33 0	66970
Beacon Hill - -	12 15 0	52366
Yarnsbury Castle -	158 12 0	
Beacon Hill - -	59 48 0	52363
Salisbury Spire -	65 52 0	49590
Yarnsbury Castle -	54 20 0	
Beacon Hill - -	13 44 0	64022
Yarnsbury Castle -	122 53 0	18098
Chittern Windmill -	43 23 0	
Beacon Hill - -	16 12 0	42814
Yarnsbury Castle -	46 43 0	16408
Maddington Windmill -	117 5 0	
Chittern Windmill -	106 33 0	16205
Yarnsbury Castle -	34 22 0	27518
Upton Barrow - -	39 5 0	
Clay Hill Barrow -	56 41 0	52703
Beacon Hill - -	26 31 0	98645
Fonthill Abbey -	96 48 6	
Clay Hill Barrow -	39 7 0	107542
Beacon Hill - -	63 32 0	75792
Milk Hill, *Thorn* -	77 21 0	
Beacon Hill - -	10 35 10	117240
Bradley Knoll - -	47 4 50	29412
Clay Hill Barrow -	122 20 10	
Beacon Hill - -	99 1 36	58085
Bradley Knoll - -	21 40 7	155360
Dean Hill - -	59 18 17	

Names of Stations and intersected objects.	Angles for Calculation	Distances in Feet.
	° ′ ″	
Beacon Hill - -	23 37 0	101366
Bradley Knoll - -	43 46 0	58707
Whitehorse Hill New Station - -	112 37 0	
Bradley Knoll -	40 46 0	33762
Clay Hill Barrow - -	80 7 0	22378
Frome Spire - -	59 7 0	
Bradley Knoll -	41 33 0	31514
Clay Hill Barrow -	74 26 0	21691
Frome Asylum -	64 2 0	
Bradley Knoll - -	56 39 0	26555
Clay Hill Barrow -	56 16 0	26674
Lord Cork's House -	67 5 0	
Bradley Knoll - -	63 25 0	36844
Clay Hill Barrow -	68 35 0	35393
Whatley Spire -	48 0 0	
Bradley Knoll - -	79 59 0	44163
Clay Hill Barrow -	63 27 0	48616
Leigh Steeple -	36 34 0	
Bradley Knoll - -	48 41 0	45853
Clay Hill Barrow -	91 26 0	34450
Buckland Steeple -	39 53 0	
Bradley Knoll - -	45 59 0	64748
Clay Hill Barrow -	108 30 0	49099
Station north of Codford	25 31 0	
Bradley Knoll -	29 26 0	46167
Clay Hill Barrow -	115 27 0	25125
Beckington Steeple -	35 7 0	
Bradley Knoll -	34 6 0	93943
Clay Hill Barrow -	132 34 10	71515
Farley Down New Station	13 19 50	
Mendip - -	33 9 20	23573
Bradley Knoll - -	16 58 40	44152
Leigh Steeple - -	129 52 0	
Mendip - - -	36 15 0	38130
Bradley Knoll - - -	35 50 30	38505
Crich Hill - -	107 54 30	
Bradley Knoll -	58 50 0	36443
Leigh Steeple -	50 57 0	40154
Berkeley Lodge -	70 13 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Bradley Knoll - -	16 35 0	36914
Leigh Steeple -	50 12 0	13713
Whatley Spire - -	113 13 0	
Mendip - -	96 34 0	9014
Leigh Steeple -	20 0 0	26183
Benager Steeple -	63 26 0	
Mendip - -	41 31 0	7690
Leigh Steeple - -	15 58 0	18530
Ashwick Steeple -	122 31 6	
Clay Hill Barrow -	4 44 0	39479
Station near Codford -	18 28 0	10285
Upton Barrow -	156 48 0	
Clay Hill Barrow -	4 6 0	44815
Station near Codford -	36 4 0	5443
Codford St. Peter Steeple	139 50 0	
Clay Hill Barrow -	25 0 30	100429
Farley Down New Station	114 40 0	46719
Rushden Huish Steeple	40 19 30	
Leigh Steeple - -	14 18 0	40150
Clay Hill Barrow -	45 37 0	13876
Berkeley Lodge -	120 5 0	
Bradley Knoll -	10 8 0	97020
Farley Down New Station	95 14 0	17141
Lansdown Clump -	74 38 0	
Farley Down New Station	84 16 0	26731
Lansdown Clump -	61 27 0	30279
Hinton Steeple -	34 17 0	
Farley Down New Station	131 39 0	8369
Lansdown Clump -	15 24 0	23549
Kingsdown Clump -	32 57 0	
Kingsdown Clump -	20 30 0	21833
Farley Down New Station	147 40 0	14293
St. Michael's Spire, Bath -	11 50 0	
White Horse Hill New Sta.	105 17 0	56835
Bradley Knoll -	36 39 0	91846
Farley Clump - -	38 4 0	
White Horse Hill New Sta.	107 36 0	25551
Bradley Knoll - -	20 8 0	70756
Trowbridge Spire -	52 16 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Clay Hill Barrow - -	25 17 0	45819
Milk Hill, *Thorn* -	16 29 20	68947
Steeple Ashton -	138 13 40	
Farley Clump -	24 32 0	69210
White Horse Hill New Sta.	102 2 0	29383
Clay Hill Barrow -	53 26 0	
Farley Clump -	44 11 0	34897
White Horse Hill New Sta.	37 24 0	40043
Melksham Steeple -	98 25 0	
Clay Hill Barrow -	34 43 0	43448
White Horse Hill New Sta.	104 21 0	25541
Trowbridge Spire -	40 56 0	
Clay Hill Barrow -	13 55 0	24266
White Horse Hill New Sta.	45 2 0	8250
Westbury Steeple -	121 3 0	
Clay Hill Barrow -	46 22 0	53423
White Horse Hill New Sta.	100 57 0	39383
Bradford Windmill -	32 41 0	
Clay Hill Barrow -	61 56 0	29537
White Horse Hill New Sta.	59 17 0	30317
Road Steeple - -	58 47 0	
Clay Hill Barrow -	12 9 0	20805
White Horse Hill New Sta.	25 50 0	10047
Windmill near Westbury	142 1 0	
Farley Clump - -	68 43 0	34878
Clay Hill Barrow -	29 53 0	65228
Melksham Steeple -	81 24 0	
Road Steeple - -	132 7 0	7296
Clay Hill Barrow -	8 56 0	34853
Winchfield Steeple -	38 57 0	
Clay Hill Barrow -	49 49 0	21505
Windmill near Westbury	67 8 0	17831
Standerwick House -	63 3 0	
Steeple Ashton - -	26 16 0	17321
Milk Hill, *Thorn* - -	8 10 0	53962
Seend Steeple - -	145 34 0	
Clay Hill Barrow -	44 59 0	62628
Farley Down New Station	58 25 0	51969
Seend Steeple -	76 36 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Farley Down New Station	48 4 0	29296
Seend Steeple - -	33 56 0	39041
Corsham Spire - -	98 0 0	
Clay Hill Barrow -	43 43 0	48443
Melksham Steeple - -	47 56 0	45098
Hinton Steeple -	88 21 0	
Hinton Steeple -	59 55 0	42785
Clay Hill Barrow -	53 54 0	45820
Steeple Ashton -	66 11 0	
Clay Hill Barrow -	39 40 0	13514
Station near Codford -	12 34 0	39647
Barrow on Limekiln Hill	127 46 0	
Clay Hill Barrow -	33 42 0	14265
Limekiln Hill Barrow -	78 15 0	8084
Bishopstrow Spire -	68 3 0	
Beacon Hill - -	15 57 0	98670
Bradley Knoll - -	33 52 0	48656
Fonthill Abbey -	130 11 0	
Bradley Knoll - -	32 36 0	19674
Fonthill Abbey -	18 17 0	33787
Kingston Deverill Hill -	129 7 0	
Bradley Knoll - -	11 18 0	19725
Kingston Deverill Hill -	85 6 0	38792
Kingston Deverill Spire -	83 36 0	
Compton Clump -	143 52 20	14111
Ridge Hill - -	11 32 0	41611
Fonthill Abbey -	24 35 40	
Ridge Hill - -	56 4 0	5679
Fonthill Abbey -	23 18 0	11912
Thirteen mile stone -	100 38 0	
Fonthill Abbey -	16 6 0	54322
Compton Clump -	125 5 0	18409
Barn north of Wilton -	38 49 0	
Barn near Wilton -	21 46 0	12973
Compton Clump -	37 6 0	7975
Barrow South of Barford	121 8 0	
Barn near Wilton -	63 39 30	7302
Barrow near Barford -	33 55 0	11728
Wilton Steeple -	82 25 30	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
	° ′ ″	
Compton Clump -	52 38 0	9309
Barrow near Barford -	72 33 0	7755
Barford St. Martin Steeple	54 49 0	
Compton Clump -	32 43 0	8317
Barn near Wilton -	21 30 0	12265
Three Fir Trees south of Barford - -	125 47 0	
Compton Clump -	127 25 0	14112
Three Fir Trees -	33 34 0	20272
Baverstock Steeple -	19 1 0	
Mendip - - - -	60 12 20	85802
Dundry - -	70 21 20	79062
Farley Down New Station	49 25 20	
Farley Down New Station	13 20 0	41069
Dundry - -	13 37 0	40230
Stantonbury Hill -	153 3 0	
Stantonbury Hill -	59 33 0	15781
Dundry - -	22 53 0	34986
Pollard on Beacon Hill	97 34 0	
Dundry - -	13 49 0	45377
Stantonbury Hill -	109 29 0	11485
Priest Barrow - -	56 42 0	
Stantonbury Hill -	66 21 0	9346
Beacon Hill, *Pollard* -	35 26 0	14767
Compton Dando Steeple	78 13 0	
Stantonbury Hill -	21 34 0	4649
Beacon Hill, *Pollard* -	8 29 0	11584
Marksbury Steeple -	149 57 0	
Stantonbury Hill -	115 52 0	18129
Beacon Hill, *Pollard* -	34 33 0	28763
Keynsham Steeple -	29 35 0	
Stantonbury Hill -	28 0 0	20199
Beacon Hill, *Pollard* -	102 13 0	9702
Stantonwick Glass House	49 47 0	
Stantonbury Hill -	158 43 0	10407
Beacon Hill, *Pollard* -	81 26 0	25277
Newton Steeple -	12 51 0	
Stantonbury Hill -	11 33 0	25276
Keynsham Steeple -	142 40 0	8345
Dr. Foxe's House	25 47 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
Dundry - -	49 27 0	33738	White Horse Hill -	13 12 0	31519
Beacon Hill Pollard -	63 1 0	28767	Roundaway Castle - -	152 29 0	15578
Keynsham Steeple -	67 32 0		Beenham Spire -	14 19 0	

ART. VIII. *Secondary Triangles for the Survey of the County of Sussex.*

Plate VIII.

The Distances serving as Base Lines for the following Triangles are

Chanctonbury Ring to { Highdown Windmill - - - - 29442
Lord Egremont's Summer House 70219

Leith Hill to - - { Crowborough Beacon - - 128332
Horsham Spire - - - 43558

Highdown Windmill -	55 24 0	40715	Egremont's SummerHouse	47 10 0	21750
Chanctonbury Ring -	79 19 0	34105	Hascombe Hill Telegraph	22 14 0	42153
Shoreham Steeple -	45 17 0		Black Down Telegraph	110 36 0	
Highdown Windmill -	63 53 0	12676	Bgremont's Summer House	75 51 0	62204
Chanctonbury Ring	25 30 0	26438	Hascombe Hill Telegraph	57 23 0	71610
West Tarring Spire -	90 37 0		Shipley Spire - -	46 46 0	
High Down Windmill -	36 6 0	27140	Egremont's Summer House	74 25 0	71780
Chanctonbury Ring -	64 50 0	17668	Hascombe Hill Telegraph	63 28 0	77281
Steep Down - -	79 4 0		Grinstead Park House	42 7 0	
Highdown Windmiil -	62 52 0	29390	Egremont's Summer House	18 39 0	44179
Chanctonbury Ring -	58 29 0	30681	Hascombe Hill Telegraph	49 57 0	18502
Lancing, Great House	58 39 0		Alfold Spire - -	111 34 0	
Highdown Windmill -	54 57 0	29640	Egremont's Summer House	59 57 0	44018
Shoreham Steeple -	45 41 0	33914	Hascombe Hill Telegraph	50 11 0	49605
Chanctonbury Fire Beacon	79 22 0		Billinghurst Spire -	69 52 0	
Highdown Windmill -	45 43 0	8194	Egremont's Summer House	43 44 0	22961
Shoreham Steeple -	9 31 0	35482	Hascombe Hill Telegraph	23 6 0	40458
Goring Spire -	124 46 0		Kirford Steeple -	113 10 0	
Shoreham Steeple -	19 6 0	20688	Hascombe Hill Telegraph	72 19 0	18520
Chanctonbury Fire Beacon	25 14 0	15879	Blackdown Telegraph -	25 47 0	40566
Bramber Castle -	135 40 0		Alfold Spire - -	81 54 0	
Egremont's Summer House	0 11 0	70420	Hascombe Hill Telegraph	102 38 0	31156
Chanctonbury Ring -	134 41 0	301	Black Down Telegraph	31 50 0	57636
Chanctonbury Fire Beacon	48 8 0		Rudgwick Steeple -	45 32 0	
Egremont's Summer House	102 54 0	53806	Hascombe Hill Telegraph	103 19 0	60675
Chanctonbury Fire Beacon	32 28 0	97703	Black Down Telegraph	46 27 0	81465
Hascombe Hill Telegraph	44 38 0		Horsham Spire -	30 14 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Rooks Hill - -	88 51 16	73754
Chichester Spire -	74 55 8	76370
High Down Windmill	16 13 36	
Chichester Spire -	9 59 0	52205
Highdown Windmill -	19 56 0	26546
Arundel Spire -	150 5 0	
Chichester Spire -	20 33 40	76355
Highdown Windmill -	79 41 20	27257
Storrington Hill, Barrow	79 45 0	
Chichester Spire -	29 56 0	52187
High Down Windmill	39 54 0	40597
Bury Hill - -	110 10 0	
Bury Hill - -	41 35 30	26277
High Down Windmill	39 47 20	27257
Storrington Hill Barrow	98 37 10	
Bury Hill - -	39 23 0	24396
High Down - -	35 27 0	26688
Storrington Hill, *Tree*	105 10 0	
Bury Hill - -	31 53 0	56868
Storrington Hill Barrow	126 14 0	37238
Shipley Spire - -	21 53 0	
Bury Hill - -	32 4 0	35673
Storrington Hill Barrow	101 47 20	19347
Warminghurst Spire -	46 8 40	
Bury Hill - -	54 8 0	25954
Storrington Hill, *Tree*	66 24 0	22952
Pulborough Spire -	59 28 0	
Bury Hill - -	51 55 0	25970
Storrington Hill Barrow	63 21 0	22871
Pulborough Spire -	64 44 0	
Bury Hill - -	9 5 0	32788
Storrington Hill Barrow	139 41 0	8000
Sullington Windmill -	31 14 0	
Steep Down - -	52 12 0	8517
Chanctonbury Ring -	28 24 0	14150
Intrenchment, GisburyHill	99 24 0	
Egremont's Summer House	107 8 0	21749
Billinghurst Spire -	22 24 0	54540
Blackdown Telegraph -	50 28 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Egremont's Summer House	79 25 0	50893
Black Down Telegraph	76 2 0	51560
Beacon Hill Telegraph	24 30 0	
Egremont's Summer House	49 1 0	9905
Black Down Telegraph	26 7 0	16986
Red Hill Windmill -	104 52 0	
Egremont's Summer House	90 53 0	22943
Black Down Telegraph	46 4 0	31855
Kirford Steeple -	43 3 0	
Egremont's Summer House	114 27 0	26986
Black Down, Telegraph	36 44 0	41073
Keyshot Hill, Barrow	28 49 0	
Black Down Telegraph	16 38 0	7449
Red Hill Windmill -	12 13 0	10077
Lurgershall Spire -	151 9 0	
Hascombe Hill Telegraph	56 57 0	31162
Kirford Steeple -	48 4 0	35111
Rudgwick Steeple -	74 59 0	
Egremont's Summer House	54 44 0	52579
Billinghurst Spire -	72 21 0	45050
Ash Tree, above Torrington	52 55 0	
Egremont's Summer House	42 40 0	25126
Ash Tree, above Torrington	26 32 0	38119
Duncton Fire Beacon -	110 48 0	
Black Down Telegraph	41 51 0	9210
Red Hill Windmill -	31 15 0	11844
North-Chapel Spire -	106 54 0	
Black Down Telegraph	65 44 0	15772
Red Hill Windmill -	53 51 0	17807
Shillingly, Park Lodge -	60 25 0	
Egremont's Summer House	52 44 0	8166
Duncton Fire Beacon -	17 51 0	21202
Petworth Steeple -	109 25 0	
Egremont's Summer House	47 25 0	20805
Duncton Fire Beacon -	54 12 0	18887
Codmoor Hill -	78 23 0	
Duncton Fire Beacon	36 20 0	15576
Codmoor Hill - -	55 31 0	11196
Waterfield Windmill -	88 9 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Duncton Fire Beacon -	59 47 0	23151
Codmoor Down -	70 7 0	21274
Amberley Steeple -	50 6 0	
Duncton Fire Beacon -	23 27 0	23131
Waterfield Windmill -	121 31 0	10798
Amberley Steeple -	35 2 0	
Amberley Steeple -	39 12 0	19426
Codmoor Down -	63 8 0	13763
Pulborough Spire -	77 40 0	
Duncton Fire Beacon -	20 15 0	15910
Amberley Steeple -	33 50 0	9899
Bury Hill -	125 55 0	
Amberley Steeple -	91 26 0	10006
Bury Hill - -	44 35 0	14251
Cold Waltham Steeple	43 59 0	
Heyshot Hill Barrow -	87 57 0	32644
Black Down Telegraph	39 16 0	51544
Beacon Hill Telegraph	52 47 0	
Heyshot Hill Barrow -	58 31 0	17073
Beacon Hill Telegraph	31 32 0	27839
Midhurst Steeple -	89 57 0	
Heyshot Hill Barrow -	116 40 0	27063
Beacon Hill Telegraph	28 21 0	50881
Egremont's Summer House	34 59 0	
Beacon Hill Telegraph	34 57 0	13623
Midhurst Steeple -	25 5 0	18409
Barrow, east of Beacon Hill	119 58 0	
Beacon Hill Telegraph	71 58 0	5405
Barrow, east of Beacon Hill	23 16 0	13008
Elsted Steeple -	84 46 0	
Beacon Hill Telegraph	89 45 0	33469
Barrow east of Beacon Hill	68 4 0	36081
Milland House -	22 11 0	
Beacon Hill Telegraph -	31 44 20	13628
Egremont's Summer House	10 20 20	39945
Barrow, east of Beacon Hill	137 55 20	
Egremont's Summer House	70 12 0	42353
Barrow east of Beacon Hill	57 17 0	47363
Lynchmere Steeple -	52 31 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Duncton Fire Beacon -	44 0 0	15872
Waterfield Windmill -	69 20 0	31654
Bury Hill - -	66 40 0	
Duncton Fire Beacon -	116 21 0	21234
Bury Hill - -	36 57 0	31654
Petworth Steeple -	26 42 0	
Arundel Spire -	55 19 0	8356
Highdown Windmill -	17 30 0	22849
Leominster Steeple -	107 11 0	
Highdown Windmiill -	158 57 0	8188
Arundel Spire - -	4 55 0	34314
Goring Spire - -	16 8 0	
High Down Windmill	46 39 0	21234
Arundel Spire -	52 13 0	19537
Little Hampton Windmill	81 8 0	
Highdown Windmill	54 32 0	10774
Arundel Spire -	23 23 0	22111
Preston Spire - -	102 5 0	
Highdown Windmill -	47 22 0	15305
Arundel Spire -	34 50 0	19713
Rustington Steeple -	97 48 0	
Crowborough Beacon -	0 1 10	128338
Leith Hill Station -	98 35 0	44
Leith Hill Tower -	81 23 50	

Horsham Spire to Leith Hill 43558.

Horsham Spire -	0 2 16	43526
Leith Hill - -	41 20 0	44
Leith Hill Tower -	138 37 44	
Leith Hill Tower -	27 1 0	44658
Horsham Spire - -	79 33 0	20628
Colgate Hill Fire Beacon	73 26 0	
Leith Hill Tower -	30 14 0	44665
Crowborough Beacon	14 4 0	92526
Colgate Hill Fire Beacon	135 42 0	
Crowborough Beacon -	74 22 0	72134
Leith Hill Tower -	32 32 0	129169
Mount Harry Fire Beacon	73 6 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Crowborough Beacon -	18 10 0	103650
Leith Hill Tower -	47 16 0	43996
Reigate West Windmill	114 34 0	
Crowborough Beacon -	21 0 0	77497
Leith Hill Tower - -	26 23 0	62498
Outwood Smock Windmill	132 37 0	
Crowborough Beacon -	69 51 0	54107
Mount Harry Beacon -	43 31 0	73770
Selswell Windmill -	66 38 0	
Crowborough Beacon -	64 10 30	48316
Mount Harry Beacon -	40 24 30	67091
West Hoathley Spire -	75 25 0	
Crowborough Beacon -	63 18 0	27943
Mount Harry Beacon -	22 44 0	64598
Witchcross Beech - -	93 58 0	
Crowborough Beacon -	77 48 30	14321
Mount Harry Beacon -	11 27 0	70514
Deal Mount Clump -	90 44 30	
Leith Hill Tower -	29 15 30	74532
Mount Harry Beacon -	29 35 30	73767
Selswell Windmill -	121 9 0	
Selswell - - -	38 21 0	7699
Crowborough Beacon -	5 40 30	48306
West Hoathley Spire -	135 58 30	
Crowborough Beacon -	22 38 0	103623
Selswell Windmill -	136 10 0	57579
Reigate West Windmill	21 12 0	
Crowborough Beacon -	30 30 0	69991
Selswell Windmill -	99 54 0	36060
Cuckfield Spire - -	49 36 0	
Selswell Windmill -	55 13 0	35720
Crowborough Beacon -	41 1 0	44703
Beech Hill, *Tree* -	83 46 0	
Crowborough Beacon -	26 22 0	44692
Witchcross Beech -	121 22 0	23245
East Grinstead Spire -	32 16 0	
Crowborough Beacon -	67 35 0	41531
Witchcross Beech -	72 30 0	40256
Mark Beech, *Oak* - -	39 55 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Crowborough Beacon -	7 3 30	26020
Witchcross Beach -	56 27 0	73136
Witchcross Clump -	116 29 30	
Reigate West Mill -	66 53 0	42672
Leith Hill Tower - -	55 14 0	47775
Crawley Steeple -	57 53 0	
Leith Hill - -	87 30 0	21443
Reigate West Windmil	26 27 0	48096
Shire Mark Windmill -	66 3 0	
Reigate West Windmill	14 59 0	55617
Crawley Steeple - -	127 33 0	18136
Colgate Fire Beacon -	37 28 0	
Crawley Steeple - -	38 31 0	35518
Reigate West Windmill -	56 4 0	26659
Outwood Smock Windmill	85 25 0	
Mount Harry Fire Beacon	11 23 0	30093
Selswell Windmill - -	7 38 30	44666
Chailey Windmill - -	160 58 30	
Leith Hill Tower -	26 13 0	81651
Selswell Windmill -	87 58 0	36093
Cuckfield Spire - -	65 49 0	
Crowborough Windmill	14 41 0	14330
Reigate West Windmill	2 19 0	89861
Deal Mount Clump -	163 0 0	
Reigate West Windmill	12 59 0	62775
Crowborough Windmill	18 22 0	44759
Beech Hill, *Tree* -	148 39 0	
Mount Harry -	32 18 0	47313
Chailey Windmill - -	111 23 0	27151
Maresfield Steeple -	36 19 0	
Chailey Windmill -	13 7 30	31790
Selswell Windmill -	27 46 30	15491
Ardingly Spire -	139 6 0	
Chailey Windmill -	147 51 0	31811
Mount Harry Beacon -	16 32 0	59486
Ardingly Spire -	15 37 0	
Crawley Steeple -	105 28 0	21288
Leith Hill Tower - -	21 0 0	57255
Burston Spire - -	53 32 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Crawley Steeple - -	70 4 0	20665
Leith Hill Tower -	25 30 0	45126
Horley Steeple -	84 26 0	
Leith Hill Tower -	9 10 0	56854
Crawley Steeple -	132 41 0	12321
Kilgate Heath, *House*	38 9 0	
Deal Mount Clump	107 52 0	34894
Crowborough Beacon -	53 0 0	41585
Mark Beech -	19 8 0	
Mark Beech - -	21 40 0	29937
Deal Mount Clump -	98 34 0	14911
Crowborough Windmill	59 46 0	
Mark Beech - -	19 21 30	36574
Deal Mount Clump	88 10 0	12129
Witchcross Large Clump	72 28 30	
Mark Beech - -	23 52 0	7749
Deal Mount Clump -	6 26 0	27984
Cowden Spire - -	149 42 0	
Witchcross, Beech -	16 4 0	3844
Mark Beech - -	1 40 0	36578
Witchcross, Large Clump	162 16 0	
Mark Beech - -	40 50 0	39923
Witchcross, Large Clump	76 17 0	26870
Crowborough Windmill	62 53 0	
Witchcross Large Clump	38 39 0	36535
Crowborough Windmill	94 10 0	22879
Groombridge Steeple	47 11 0	
Deal Mount Clump -	81 44 0	28043
Witchcross Large Clump	73 44 0	28908
Cowden Spire - -	24 32 0	
Deal Mount Clump	99 26 0	12939
Witchcross Large Clump	41 51 0	19130
Hartfield Spire -	38 43 0	
Deal Mount Clump -	118 9 0	12458
Witchcross Large Clump	31 23 0	21093
Withyham Steeple -	30 28 0	
Leith Hill Tower -	15 56 30	63603
Outwood Smock Windmill	85 36 30	17520
Nutfield Windmill	78 27 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Crawley Steeple - -	14 34 0	49448
Outwood Smock Windmill	134 49 0	17532
Nutfield Windmill	30 38 0	
Crawley Steeple - -	33 16 0	23542
Outwood Smock Windmill	39 12 0	20432
Capt Thorn Windmill	107 32 0	
Outwood Smock Windmill	28 20 0	19313
Crawley Steeple -	26 20 0	20663
Horley Spire - -	125 20 0	
Outwood Smock Windmill	11 49 0	26730
Crawley Steeple - -	30 20 0	10839
Lowfield Heath Windmill	137 51 0	
Crawley Steeple -	23 41 0	21274
Nutfield Windmill -	15 55 0	31160
Burstow Spire -	140 24 0	
Crawley Spire -	47 53 0	23528
Nutfield Windmill -	27 24 0	37923
Capt Thorn Windmill	104 43 0	
Crawley Steeple -	101 40 0	20921
Nutfield Windmill -	20 53 30	57455
Rusper Steeple -	57 26 30	
Nutfield Windmill -	16 11 0	39648
Capt Thorn Windmill -	90 48 0	11051
Felbridge Monument	73 1 0	
Colgate Fire Beacon -	67 23 30	15965
Crawley Steeple -	50 51 0	19005
Hand Cross Clump -	61 45 30	
Reigate West Windmill	14 29 0	61660
Colgate Fire Beacon -	104 50 0	15953
Hand Cross Clump	60 41 0	
Leith Hill Tower -	38 2 0	33821
Colgate Fire Beacon -	49 9 0	27548
Charlewood Steeple -	92 49 0	
Leith Hill Tower - -	64 36 30	28843
Nutfield Windmill -	26 57 30	57480
Rusper Steeple -	88 26 0	
Crawley Steeple - -	12 9 0	12927
Hand Cross Clump -	20 20 0	7448
Kilgate Heath, *House* -	147 31 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
Outwood Smock Windmill	73 30 0	26706	Maresfield Steeple -	115 3 0	15259
Reigate West Windmill	53 19 0	31929	Mount Harry -	14 25 0	55522
Lowfield Heath Windmill	53 11 0		Netley End, *Large Fir* -	50 32 0	
Maresfield Steeple -	46 35 0	12207	Chanctonbury Ring -	9 45 1	60736
Mount Harry Fire Beacon	12 50 0	39921	Leith Hill Station -	13 39 33	43558
Fletching Spire -	120 35 0		Horsham Spire -	156 35 27	

ART. IX. *Secondary Triangles for the Survey of the County of Surrey.*

Plate 9.

The Distances serving as Base Lines for the following Triangles are

Hundred Acres to Hanger Hill Tower - 71932 Feet.

St. Ann's Hill to
- Hanger Hill Tower - 68896
- Banstead - - 76688
- Sunbury Steeple - 26022
- Stanwell Spire - - 23720
- King's Arbour - 34455
- Bagshot Heath - 46955

Severndroog Tower to
- Hanger Hill Tower - 84375
- Bromley Steeple - 24930

Hundred Acres -	42	3	56	35957	St. Ann's Hill - -	143	48 0 476
Hanger Hill - -	28	2	10	51254	Banstead Spire -	0	12 12 79324
Streatham Spire -	109	53	54		St. Ann's Clump -	35	59 48
Hundred Acres -	27	51	56	47896	Banstead - -	15	13 40 14545
Streatham Spire -	105	55	10	23279	Harrow Spire - -	2	36 20 84035
Fulham Steeple -	46	12	54		Yewell Steeple - -	162	10 0
St. Ann's Hill - -	62	10	16	78939	Banstead - -	32	11 0 11276
Hanger Hill Tower -	65	20	40	76811	Yewell Steeple -	50	13 0 7815
Banstead Spire -	52	29	10		Epsom Spire - -	97	36 0
St. Ann's Station -	16	15	40	48919	Hanger Hill Tower -	58	57 20 76811
Banstead Station -	25	23	22	33062	Severndroog Tower -	55	46 35 79590
Cockerow Hill -	137	45	58		Banstead Spire -	65	16 5
St. Ann's Hill -	79	1	50	77301	Banstead Spire - -	18	56 0 55614
Banstead Station -	50	45	40	97982	St. Ann's Hill, Clump	34	2 0 32242
Harrow Spire -	50	12	30		Pain's Hill Spire -	127	2 0

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Pain's Hill Spire -	40 22 0	5911
St. Ann's Clump -	7 51 30	28001
George's Tree - -	131 46 30	
Banstead Spire -	6 5 0	55587
Pain's Hill Spire -	86 42 0	5900
George's Tree -	87 13 0	
Pain's Hill - -	78 2 0	7595
George's Tree -	59 46 0	8599
Byfleet Spire -	42 12 0	
Pain's Hill - -	76 22 0	19751
George's Tree -	86 16 30	19235
Holly, Okeshut Warren	17 21 30	
St. George's Tree - -	60 29 0	28023
Holly, Okeshut Warren	77 27 0	24983
Effingham Steeple - -	42 4 0	
Pain's Hill Spire -	5 50 0	26932
Holly, Okeshut Warren	158 45 30	7555
Cabbage Hill Telegraph	15 24 30	
Pain's Hill Spire -	27 46 0	29622
Cabbage Hill Telegraph	87 0 30	13819
Leatherhead Steeple -	65 13 30	
St. Ann's Clump -	39 23 0	32574
Pain's Hill Spire -	71 7 40	21842
Woking Monument	69 29 20	
St. Ann's Clump -	57 25 0	49605
Pain's Hill Spire -	82 28 0	42161
Warplesdon Steeple -	40 7 0	
St. Ann's Clump -	45 19 0	60450
Pain's Hill Spire -	103 26 0	44189
Guildford Steeple -	31 15 0	
Woking Monument -	133 25 30	21210
St. Ann's Clump -	18 5 30	49606
Worplesdon Steeple -	28 29 0	
Woking Monument -	102 2 30	23375
Pain's Hill Spire - -	40 33 0	35164
Merrow Steeple -	37 24 30	
Woking Monument -	66 22 0	37962
Pain's Hill Spire -	79 13 0	35404
Nettleheath Telegraph	34 25 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Woking Monument -	33 7 0	16093
Pain's Hill Spire -	46 26 0	12135
Ockham Steeple -	100 27 0	
Woking Monument -	63 16 30	26343
Pain's Hill Spire -	66 59 0	25564
West Horseley Mill -	49 44 30	
Woking Monument	123 16 0	28232
Pain's Hill Spire -	32 18 30	44167
Guildford Steeple -	24 25 30	
Guildford Steeple -	9 38 0	31754
Woking Monument -	120 3 0	6139
Pirford Steeple -	50 19 0	
Guildford Steeple -	119 51 0	12123
Woking Monument -	17 3 30	35843
Yew Tree, Hog's Back	43 5 30	
Guildford Steeple -	47 59 0	15875
Woking Monument -	33 49 0	21192
Worplesdon Steeple -	98 12 0	
Guildford Steeple -	52 48 0	10642
Woking Monument -	21 15 0	23388
Merrow Steeple -	105 57 0	
Guildford Steeple -	92 56 0	31646
Woking Monument -	46 38 0	43474
Romping Down, *Clump*	40 26 0	
Guildford Steeple -	20 22 0	49083
Woking Monument -	136 9 0	24658
George's Tree -	23 29 0	
Guildford Steeple -	68 20 0	15891
George's Tree - -	18 52 0	45669
Worplesdon Steeple -	92 48 0	
Woking Monument -	116 49 0	31179
George's Tree -	35 42 0	47684
St. Martha's Chapel -	27 29 0	
Woking Monument -	64 39 0	29134
George's Tree -	65 10 0	29011
East Horseley Steeple -	50 11 0	
Woking Monument -	17 39 0	29033
George's Tree - -	108 52 0	9302
Cobham Spire - -	53 29 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Woking Monument -	120 6 0	9342
George's Tree - -	15 24 0	30436
Horsehill Steeple -	44 30 0	
Woking Monument -	79 16 0	37957
George's Tree - -	64 45 0	41233
Nettleheath Telegraph	35 59 0	
Guildford Steeple -	71 49 0	12116
Worplesdon Steeple	43 38 0	16720
Yew Tree, Hog's Back	64 33 0	
Yew Tree, Hog's Back	82 51 0	22739
Worplesdon Steeple -	58 23 0	26495
Ash Spire - -	38 46 0	
East Horseley Steeple	17 14 0	27188
George's Tree - -	69 18 0	8610
Byfleet Spire - -	93 28 0	
St. Ann's Hill - -	11 24 0	48919
Sunbury Steeple -	156 12 30	23968
Cockcrow Hill -	12 23 30	
St. Ann's Hill - -	79 1 30	14206
Sunbury Steeple -	30 53 0	27170
Staines Steeple -	70 5 30	
St. Ann's Station -	27 14 0	20959
Sunbury Steeple - -	52 24 0	12106
Oatlands, Temple -	100 22 2	
Sunbury Steeple -	37 20 0	55141
Cockcrow Hill -	120 43 30	38901
Headley Steeple -	21 56 30	
Sunbury Steeple -	45 52 0	19230
Cockcrow Hill - -	52 32 0	17389
Ellis's Summer House	81 36 0	
Sunbury Steeple -	13 53 0	9069
Cockcrow Hill -	8 10 0	15319
West Moulsey Steeple -	157 57 0	
Sunbury Steeple -	22 58 30	24020
Cockcrow Hill -	78 49 0	9557
Kingston Steeple - -	78 12 30	
Sunbury Steeple -	99 11 0	6670
West Moulsey Steeple -	33 1 0	12086
Walton Steeple -	47 48 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Kingston Steeple -	102 54 0	14740
Sunbury Steeple -	27 45 0	30861
Star and Garter Inn, Richmond - -	49 21 0	-
Cockcrow Hill -	99 46 0	27627
Kingston Steeple -	62 23 0	30727
Sutton Steeple -	17 51 0	
Cockcrow Hill -	87 7 0	11365
Kingston Steeple -	51 38 0	14477
Maldon Steeple -	41 15 0	
Woking Monument -	153 53 0	6145
Worplesdon Steeple -	5 47 0	26847
Pirford Steeple -	20 20 0	
Yew Tree, Hog's Back	104 15 0	22764
Woking Monument	28 1 30	46958
Ash Spire - -	47 43 30	
Yew Tree, Hog's Back	14 47 0	36495
Woking Monument -	86 35 0	9329
Horsehill Steeple -	78 38 0	
Yew Tree, Hog's Back	28 2 0	43587
Woking Monument -	97 19 0	20654
Chobham Spire -	54 39 0	
Yew Tree, Hog's Back	13 15 0	43573
Horsehill Steeple -	120 39 0	11609
Chobham Spire -	46 6 0	
St. Ann's Hill -	20 14 0	14195
Stanwell Spire -	25 16 0	11501
Staines Steeple -	134 30 0	
St. Ann's Hill -	31 29 32	14304
Bagshot Heath -	12 8 5	35553
Duke of Glocester's Tower	136 22 3	
St. Ann's Hill -	81 58 10	20959
King's Arbour -	33 21 20	37745
Oatlands, Temple -	64 40 30	
St. Ann's Hill - -	38 44 0	476
Staines Steeple -	1 14 0	13827
St. Ann's Hill Clump -	140 2 0	
Staines Steeple -	17 17 0	16382
St. Ann's Hill - -	106 84 0	5078
Chertsey Steeple - -	56 9 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
Staine's Steeple -	18 29 0	16391	Severndroog Tower -	5 0 30	60558
St. Ann's Hill Clump -	108 18 0	5473	Combehurst - -	144 45 0	9159
Chertsey Steeple -	53 13 0		Beggar's Bush - -	30 14 30	
St. Ann's Hill Clump -	45 2 0	19509	Banstead Down, Pollard	21 31 0	23519
Staines Steeple -	89 50 0	13803	Combehurst - -	65 37 0	9471
Ashford Spire -	45 8 0		Croydon Steeple -	92 52 0	
St. Ann's Hill Clump -	15 16 0	28069	Banstead Down, Pollard	84 24 0	34063
Staines Steeple -	98 35 0	22450	Combehurst - -	56 28 0	40668
Feltham Spire -	29 9 0		Wimbledon Spire -	39 8 0	
St. Ann's Hill Clump -	38 50 0	27474	Combehurst - -	69 37 30	9168
Staines Steeple -	113 44 0	18819	Croydon Steeple -	53 51 0	10644
Bedfont Steeple -	27 26 0		Beggar's Bush - -	56 31 90	
St. Ann's Hill Clump -	79 4 0	13887	Combehurst - -	50 25 0	22189
Staine's Steeple -	50 37 0	17641	Croydon Steeple -	105 16 0	17726
Duke of Glocester's Tower	50 19 0		Carshalton Windmill	24 19 0	
St. Ann's Clump -	27 14 0	12999	Combehurst -	154 7 0	5811
Staines Steeple -	69 7 0	6366	Croydon Steeple -	9 47 30	14916
Egham Spire - -	83 39 0		Sanderstead Spire -	16 5 30	
St. Ann's Hill Clump	21 21 30	3329	Combehurst -	114 40 30	18330
Staines Steeple - -	6 27 0	10794	Croydon Steeple -	44 12 30	23888
Thorpe Steeple -	152 11 30		Coulsdon Spire - -	21 7 0	
St. Ann's Hill Clump -	58 29 0	9000	Combehurst - -	84 50 0	30476
Staine's Steeple -	40 4 0	11920	Beggar's Bush -	78 3 0	31024
Laleham Steeple -	81 27 0		Streatham Spire -	17 7 0	
Severndroog Tower -	44 2 10	29989	Combehurst - -	26 45 30	28036
Bromley Steeple -	80 48 50	21116	Streatham Spire - -	66 40 30	13746
Sydenham Common -	55 9 0		Mitcham Steeple -	86 34 0	
Severndroog Tower -	31 55 0	52842	Combehurst - -	10 57 0	30857
Sydenham Common -	118 1 0	31646	Mitcham Steeple -	111 5 0	16282
Combehurst - -	30 4 0		Tooting Steeple -	57 58 0	
Severndroog Tower -	10 55 0	42804	Combehurst - -	51 11 30	19636
Sydenham Common -	146 3 0	14515	Bromley Steeple -	42 38 0	22592
Buxton Windmill -	23 2 0		Norwood House -	86 10 30	
Bromley Steeple -	76 40 0	28927	Combehurst - -	16 22 30	24499
Sydenham Common -	62 50 0	31638	Bromley Steeple -	51 52 30	8781
Combehurst - -	40 30 0		Beckingham Spire -	111 45 30	
Severndroog Tower -	12 37 40	74622	Croydon Steeple - -	76 29 0	31043
Combehurst - -	140 45 41	25790	Banstead Down, Pollard	61 41 0	34286
Pollard, Banstead Down	26 36 40		Earl Spencer's House -	41 50 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
Combehurst - -	134 48 30	24498	Botley Hill -	99 54 0	14052
Banstead Down, *Pollard*	21 59 0	46282	Leith Hill - -	8 17 0	96084
Beckingham Spire -	23 12 30		Golden Square -	71 49 0	
Combehurst -	88 27 0	5806	Golden Square -	31 38 0	14911
Banstead Down, Pollard	12 45 30	26282	Botley Hill - -	80 9 30	7937
Sanderstead Spire -	78 47 30		Tatesfield Spire -	68 12 30	

ART. X. *Secondary Triangles for the Survey of Middlesex and Hertfordshire. Plate* 10.

The Distances serving as Base Lines for the following Triangles are,

Hampstead Heath to	Severndroog Tower -	64855 Feet
	High Beech - -	59455
Stanmore Station to	Pen Steeple - -	75325
	Kensworth - - -	98577
	Hanger Hill Tower - -	37431
Highgate Chapel to Argyle Street Observatory - -		20766
Lillyhoe to Royston - - -		79867

Severndroog Tower -	19 34 54	84374	Stanmore Station - -	61 20 48	29035
Hampstead Heath -	117 22 12	31843	Harrow Spire -	82 21 0	25708
Hanger Hill Tower -	43 2 54		Hendon Steeple -	36 18 12	
Hampstead Heath -	115 39 58	43671	Harrow Spire - -	25 7 0	25727
Highbeech - -	26 04 7	87699	Hampstead Spire -	40 4 30	16962
Stanmore Station -	37 39 55		Hendon Steeple -	114 48 30	
Stanmore Station -	5 40 53	48315	Harrow Spire - -	121 40 0	27838
Hampstead Heath -	132 39 30	6504	Hampstead Spire -	24 58 0	56134
Highgate Chapel -	41 39 37		Hayes Steeple -	33 22 0	
Pen Steeple - -	12 21 17	79992	Harrow Spire - -	45 9 0	11968
Stanmore Station -	99 20 18	17345	Stanmore Station -	43 37 0	12308
Harrow Spire -	68 18 25		Pinner Steeple -	91 14 0	
Stanmore Station -	10 17 51	17345	Harrow Spire - -	97 56 0	42784
Hanger Hill Tower -	8 39 23	20553	Stanmore Station -	61 14 15	48334
Harrow Spire -	161 2 46		Highgate Chapel -	20 49 10	
Stanmore Station -	40 38 20	44667	Harrow Spire -	48 1 0	16500
Hanger Hill Tower -	83 4 10	29305	Stanmore Station -	62 47 0	13792
Hampstead Spire -	56 17 30		Little Stanmore Steeple	69 12 0	
Stanmore Station -	50 46 12	17343	Harrow Spire -	80 47 0	20151
Hampstead Spire -	21 44 17	36274	Stanmore Station -	54 39 0	24398
Harrow Spire -	107 29 31		Ruislip Steeple -	44 34 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Harrow Spire -	88 ° 12 ′ 0 ″	31302
Hanger Hill Tower -	58 0 0	36892
Hillingdon Steeple -	33 48 0	
Highgate Chapel -	67 50 0	17561
Harrow Spire -	24 13 0	39647
Finchley Lodge, Direction Post - - -	87 57 0	
Hillingdon Steeple -	110 50 0	5986
Harrow Spire - -	9 30 0	33895
Uxbridge Steeple - -	59 40 0	
Hillingdon Steeple -	71 34 0	11245
Uxbridge Steeple -	77 10 0	10941
Iver Steeple -	31 16 0	
Uxbrige Steeple -	36 23 0	6961
Hillingdon Steeple -	84 43 0	4156
Cowley Steeple -	58 54 0	
Hayes Steeple -	59 59 0	17968
Harrow Spire - -	39 31 0	24439
Harefield Steeple -	80 30 0	
Hanger Hill Tower -	66 14 0	8351
Hampstead Spire -	16 25 0	27042
Acton Steeple -	97 21 0	
Hanger Hill Tower -	59 45 0	7058
Acton Steeple -	51 44 0	7757
Ealing Steeple -	68 26 0	
Acton Steeple -	98 31 0	9300
Hampstead Spire -	17 56 0	29871
Chiswick Steeple -	63 33 0	
Harrow Spire - -	58 23 30	16029
Hendon Steeple -	38 15 0	22050
Great Stanmore Steeple -	83 21 30	
Harrow Spire -	76 2 30	13109
Great Stanmore Steeple	44 40 30	18094
Barn Hill House -	59 17 0	
Harrow Spire -	34 31 0	29120
Great Stanmore Steeple	115 46 0	18322
Sir J. Anderson's House	29 43 0	
Stanmore Station -	101 27 54	5433
Hampstead Heath -	6 47 53	45070
Bushy Heath - -	71 44 13	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Kensworth - -	18 ° 16 ′ 0 ″	107253
Bushy Heath -	102 9 0	34388
Hadley Steeple - -	59 55 0	
St. Alban's Spire -	1 49 34	50377
Bushy Heath - -	162 50 40	5443
Stanmore Station - -	15 19 46	
St. Alban's Spire -	43 33 45	48465
Stanmore Station -	65 26 50	36728
Hadley Steeple -	70 59 25	
Stanmore Station -	105 59 12	87699
Kensworth - -	34 29 11	148898
Highbeech - -	39 31 37	
Stanmore Station -	42 11 22	5447
Kensworth - -	2 12 58	94512
Bushy Heath -	135 35 40	
Stanmore Station -	71 15 30	70391
Kensworth -	41 16 7	101059
Berkhampstead Gazebo	67 28 23	
Acton Steeple -	70 29 0	22542
Chiswick Steeple -	85 12 0	21288
Paddington Chapel -	24 19 0	
Acton Steeple -	29 26 0	12167
Chiswick Steeple -	102 14 0	6118
Hammersmith Steeple	48 20 0	
Highgate Chapel -	23 21 24	24061
Argyle Street Observatory	97 54 0	9631
St. Paul's - -	58 44 36	
Highgate Chapel -	46 59 0	15185
St. Paul's - -	39 1 0	17636
Stoke Newington Steeple	94 0 0	
Highgate Chapel -	129 24 0	32131
St. Paul's - -	29 11 0	50919
Enfield Windmill -	21 25 0	
Enfield Windmill -	109 1 0	3460
Highgate Chapel -	5 37 0	33418
Enfield Steeple -	65 22 0	
Enfield Windmill -	40 38 0	8105
Highgate Chapel -	11 29 0	26511
White's Barn -	127 53 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Enfield Windmill -	11 54 0	24393
Highgate Chapel -	31 20 0	9673
Hornsey Steeple -	136 46 0	
Enfield Windmill -	23 35 0	19716
Hornsey Steeple -	51 17 0	10110
Tottenham Steeple -	105 8 0	
Hornsey Steeple -	22 18 0	18004
Tottenham Steeple -	133 47 0	9463
Edmonton Steeple -	23 55 0	
Hampstead Heath -	0 17 56	59114
Highbeech -	42 5 4	460
Highbeech new station	137 37 0	
Highbeech new station	33 5 52	53288
Hampstead Heath -	63 27 5	32493
Barnet Steeple -	83 27 3	
Bushey Heath -	74 44 2	41722
Hadley Steeple -	59 49 30	46559
St. Alban's Spire -	45 26 28	
St. Alban's Spire -	1 57 34	46950
Bushey Heath -	162 50 40	5442
Stanmore Station -	15 11 46	
Hadley Steeple -	70 10 10	38066
St. Alban's Spire -	46 47 2	49135
Berkhampstead Gazebo	63 2 48	
Stanmore Station -	34 43 42	70391
Highbeech -	53 20 24	49988
Berkhampstead Gazebo	91 55 54	
Hadley Steeple -	67 9 0	46851
Berkhampstead Gazebo	65 17 0	47529
St. Peter's Steeple, *St. Alban's*	47 34 0	
Stanmore Station -	42 21 50	48981
Berkhampstead Gazebo	43 58 50	47529
St. Peter's Steeple -	93 39 20	
St. Peter's Steeple -	63 40 0	39331
Hadley Steeple -	50 10 0	45903
Watford Spire -	66 10 0	
Stanmore Station -	170 20 44	17345
St. Peter's Steeple -	2 31 14	66145
Harrow Spire	7 8 2	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Stanmore Station -	46 0 40	16520
St. Peter's Steeple -	17 35 0	39345
Watford Spire -	116 24 20	
Watford Spire -	111 26 30	17647
Stanmore Station -	35 34 0	28239
Rickmansworth Spire -	32 59 30	
St. Peter's Steeple -	10 8 0	41229
Watford Spire -	99 49 0	7362
Bushey Steeple -	70 3 0	
St. Peter's Steeple -	32 27 0	41171
Watford Spire -	78 16 0	22563
Elstree Steeple -	69 17 0	
Watford Spire -	65 34 0	11875
Bushey Steeple -	77 14 0	11085
Aldenham Steeple -	37 12 0	
St. Peter's Steeple -	36 26 30	25496
Bushey Steeple -	36 10 0	25663
Abbot's Langley Spire	107 23 30	
Abbot's Langley Spire	23 24 0	19169
Bushey Steeple -	43 19 30	11095
Aldenham Steeple -	113 16 30	
Bushey Steeple -	48 9 0	8237
Aldenham Steeple -	47 37 0	8307
Sly Hill House -	84 14 0	
Hadley Steeple -	7 2 10	37576
Bushey Heath -	122 15 20	5443
Stanmore Station -	50 42 30	
Stanmore Station -	44 58 30	29088
Hadley Steeple -	50 24 55	26676
Hendon Steeple -	84 36 35	
Hendon Steeple -	6 3 0	16168
Hadley Steeple -	9 8 0	10735
Totteridge Spire -	164 49 0	
Hadley Steeple -	32 48 0	7336
Totteridge Spire -	41 1 0	6055
Poole's House -	106 11 0	
Hadley Steeple -	67 27 0	11080
Totteridge Spire -	57 38 0	12115
Belmont House -	54 55 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
Hadley Steeple -	18 7 0	8242	Hadley Steeple -	36 30 50	36688
Totteridge Spire -	41 27 0	3871	St. Peter's Steeple -	51 30 0	27895
Lee's Summer House -	120 26 0		Hatfield Steeple -	91 59 10	
Hadley Steeple -	109 18 0	3573	Hatfield Steeple -	13 17 0	24780
St. Peter's Steeple -	4 1 0	48150	St. Peter's Steeple -	62 41 30	14057
Barnet Steeple -	66 41 0		Hill End - -	87 1 30	
St. Peter's Steeple -	58 46 30	41150	Hill End - -	59 2 0	29618
Abbot's Langley Spire	83 15 0	35435	St. Peter's Steeple -	92 40 0	25424
Elstree Steeple -	37 58 30		North Mims Spire -	28 18 0	
St. Peter's Steeple -	28 21 0	31374	St. Peter's Steeple -	46 24 0	25492
Elstree Steeple -	47 43 0	20137	Harrow Spire -	20 49 6	51952
Ridge Steeple -	103 56 0		Abbot's Langley Spire	112 46 54	
St. Alban's Spire -	5 7 0	29625	St. Peter's Steeple -	86 7 0	25497
Berkhampstead Gazebo	7 40 0	19804	Barnet Steeple -	28 43 30	52938
Hatfield Steeple -	167 13 0		Abbot's Langley Spire	65 9 30	
Hatfield Steeple -	7 34 0	12785	Barnet Steeple -	64 58 55	42330
Berkhampstead Gazebo	13 17 0	7327	Abbot's Langley Spire	47 35 30	51951
Essendon Steeple -	159 9 0		Harrow Spire -	67 25 35	
St. Peter's Steeple -	21 55 0	41722	Barnet Steeple -	48 56 50	75634
Berkhampstead Gazebo	60 28 0	17898	Harrow Spire -	97 20 10	57507
North-haw Windmill	97 37 0		Cheneys Steeple	33 43 0	
St. Peter's Steeple -	56 33 0	42787	Barnet Steeple -	16 2 5	75653
Berkhampstead Gazebo	56 9 0	42986	Abbot's Langley Spire	133 24 55	28768
Codicote Steeple -	67 18 0		Cheneys Steeple -	30 33 0	
St. Peter's Steeple -	123 15 0	59667	Cheneys Steeple -	54 32 0	15972
Berkhampstead Gazebo	31 52 30	94494	Abbot's Langley Spire	33 44 0	23425
Caddington Steeple -	24 52 30		Bovington Lodge -	91 44 0	
Hadley Steeple -	36 45 0	62101	Abbot's Langley Spire	127 41 0	23453
Berkhampstead Gazebo	107 28 0	38953	St. Peter's Steeple -	24 59 0	43946
Neasdon Spire -	35 47 0		Bovington Lodge -	27 20 0	
Berkhampstead Gazebo	112 19 0	17902	Bovington Lodge -	15 56 0	19969
Neasdon Spire -	19 54 0	48656	Abbot's Langley Spire	51 33 0	7000
North-haw Windmill	47 47 0		Hythe Farm -	113 11 0	
St. Peter's Steeple -	10 43 30	39694	Hythe Farm -	65 17 0	6122
Caddington Steeple -	19 33 0	22025	Abbot's Langley Spire	51 24 0	7116
Flamstead Steeple -	149 43 30		King's Langley Steeple	63 19 0	
Caddington Steeple -	6 49 0	12595	King's Langley Steeple	116 51 0	18428
Flamstead Steeple -	8 55 30	9634	Abbot's Langley Spire	46 48 0	22554
Market Street Windmill	164 15 30		Hemel Hempstead Spire	16 21 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Bovington Lodge -	84 21 0	36202
St. Peter's Steeple -	41 44 17	54116
Little Gaddesden Steeple	53 54 43	
Bovington Lodge -	23 59 0	26564
Little Gaddesden Steeple	42 8 30	16092
Gaddesden Place -	113 52 30	
Lilleyhoe - -	57 21 58	16857
Royston - -	11 20 19	72186
Shillington Steeple -	111 17 33	
Lilleyhoe - -	26 12 10	13801
Shillington Steeple -	53 39 0	7566
Higham Gobion Steeple	100 8 50	
Lilleyhoe - -	39 43 17	56590
Royston - -	44 51 36	51269
Biggleswade Spire -	95 25 7	
Shillington Steeple -	45 59 0	7342
Royston - -	4 30 0	67292
Meppershall Steeple -	129 31 0	
Meppershall Steeple -	135 37 0	17083
Royston - - -	8 38 0	80306
Clophill Steeple - -	36 15 0	
Clophill Steeple - -	36 53 0	17022
Meppershall Steeple -	71 15 0	10789
Shefford Steeple -	71 52 0	
Biggleswade Spire -	17 48 0	33069
Royston - - -	27 4 0	22216
Clay Hill Bush - -	135 8 0	
Clay Hill Bush - -	70 30 0	18333
Royston - - -	47 2 0	23617
Gilden Morden Steeple	62 28 0	
Clay Hill Bush -	113 52 0	20906
Royston - - -	31 56 0	36145
Baldock Telegraph -	34 12 0	
Clay Hill Bush - -	36 46 0	18929
Royston - - -	58 6 0	13346
Lillington Steeple -	85 8 0	
Biggleswade Spire -	63 23 0	19463
Clay Hill Bush - -	35 33 0	29927
Henlow Steeple - -	81 4 0	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
	° ′ ″	
Clay Hill Bush - -	75 14 0	20918
Henlow Steeple - -	39 26 0	31845
Baldock Telegraph -	65 20 0	
Clay Hill Bush -	40 53 0	14090
Baldock Telegraph -	35 27 0	12486
Wallington Barrow -	103 40 0	
Clay Hill Bush -	102 41 0	10277
Baldock Telegraph -	23 24 0	25244
Hinxworth Steeple -	53 55 0	
Clay Hill Bush -	12 50 0	17611
Baldock Telegraph -	46 17 0	5412
Baldock Spire - -	120 53 0	
St. Neot's Steeple -	13 15 37	51020
Lilleyhoe - -	11 56 6	56590
Biggleswade Spire -	154 48 17	
St. Neot's Steeple -	3 31 0	113121
Lilleyhoe - -	138 38 30	10501
Galley Hill Bush -	37 50 30	
Henlow Steeple -	12 24 0	17256
Baldock Telegraph -	13 53 0	15443
Stotfold Steeple -	153 43 0	
Henlow Steeple -	27 36 0	26575
Baldock Telegraph -	56 2 0	14845
Hitchin Hill, Tree -	96 22 0	
Henlow Steeple -	43 17 0	31716
Baldock Telegraph -	68 4 0	23442
Hitchin Windmill -	68 39 0	
Henlow Steeple -	46 44 0	29405
Baldock Telegraph -	61 22 0	24396
Ashwell Spire - -	71 54 0	
Henlow Steeple -	15 38 0	31709
Hitchin Hill, Tree -	114 55 0	9425
Hitchin Windmill -	49 27 0	
Henlow Steeple -	37 38 0	40056
Hitchin Hill, Tree	101 53 0	24994
Great Offley Steeple -	40 29 0	
Henlow Steeple -	12 36 0	38744
Hitchin Hill, Tree -	143 3 0	14060
Ippolett's Steeple -	24 21 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Henlow Steeple -	20 35 0	45830
Hitchen Hill Tree -	135 23 0	22940
Warden Lodge -	24 2 0	
Hitchen Windmill -	77 1 0	19451
Hitchen Hill Tree -	75 4 0	19616
Stevenage Spire -	27 55 0	
Henlow Steeple -	63 30 0	16466
Hitchen Windmill -	31 8 0	28501
Meppershall Steeple -	85 22 0	
Henlow Steeple -	21 57 0	40032
Hitchin Windmill -	109 48 0	15904
Great Offley Steeple -	48 15 0	
Henlow Steeple -	21 51 0	30579
Hitchin Windmill -	73 33 0	11866
Willien Steeple -	84 36 0	
Clay Hill Bush -	124 15 0	38725
Wallington Barrow -	41 44 0	48087
Abingdon Steeple -	14 1 0	
Hitchin Windmill -	20 6 0	34406
Stevenage Spire -	137 2 0	17348
Knebworth Steeple -	22 52 0	
Knebworth Steeple -	104 28 0	13388
Stevenage Spire -	32 4 0	24418
Datchworth Spire -	43 28 0	
Datchworth Spire -	91 17 0	36374
Knebworth Steeple -	68 40 0	39041
Cottered Spire -	20 3 0	
Datchworth Spire -	63 51 0	16919
Knebworth Steeple -	68 40 0	16304
Weston Steeple -	47 29 0	
Henlow Steeple -	6 29 0	8984
Biggleswade Spire -	5 30 0	10584
Longford Steeple -	168 1 0	
Biggleswade Spire -	12 48 0	19010
Henlow Steeple -	77 37 0	4312
Clifton Steeple -	89 35 0	
Biggleswade Spire - -	106 49 0	14348
Henlow Steeple -	30 11 0	27317
North-Hill Steeple -	43 0 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Biggleswade Spire -	152 50 0	15354
Henlow Steeple -	11 57 0	33856
Sandon Spire -	15 13 0	
Biggleswade Spire -	51 3 0	15864
Henlow Steeple -	52 26 0	15565
South-Hill Steeple -	76 31 0	
North-Hill Steeple -	111 14 0	15022
Biggleswade Spire -	35 17 0	24241
Blunham Steeple -	33 29 0	
Blunham Steeple -	63 55 0	16486
Biggleswade Spire	41 4 0	22539
Everton Steeple -	75 1 0	
Blunham Steeple -	17 24 0	9584
Biggleswade Spire -	10 45 0	15366
Sandon Spire - -	151 51 0	
Blunham Steeple -	41 46 0	22900
Biggleswade Spire -	64 51 0	16851
Warden Steeple -	73 23 0	
Biggleswade Spire -	75 36 0	16837
Sandon Spire -	55 35 0	19768
Warden Steeple -	48 49 0	
Henlow Steeple - -	65 20 0	38768
Clay Hill Bush - -	68 41 0	37818
Potton Steeple -	45 59 0	
Potton Steeple -	73 58 0	9059
Clay Hill Bush -	13 51 0	36373
Cockayne Hatley Steeple	92 11 0	
Shillington Steeple -	17 47 0	25231
Lilleyhoe - -	132 55 50	10525
Galley Hill Bush -	29 17 10	
Tuddenham Steeple -	13 15 52	27766
Lilleyhoe - -	37 15 26	10525
Galley Hill Bush - -	129 28 42	
Galley Hill Bush -	23 3 0	9155
Tuddenham Steeple -	10 30 0	19670
Stretley Steeple -	146 27 0	
Lidlington - -	45 51 0	30192
Lilleyhoe - -	37 43 58	35398
Tuddenham Steeple -	96 25 2	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
Galley Hill Bush - -	49 5 30	28618	Kensworth - -	40 48 36	62458
Tuddenham Steeple -	67 21 0	23436	Lilleyhoe - -	89 59 30	40817
Dunstable Steeple -	63 33 30		Ampthill Steeple -	49 11 54	
Stretley Steeple -	111 53 0	25621	Bowbrickhill - -	27 21 44	22297
Tuddenham Steeple -	39 8 0	37670	Kensworth -	15 8 36	39229
Luton Steeple - -	28 59 0		Milton Bryant Steeple -	137 29 40	
Galley Hill Bush -	29 39 0	8804	Lilleyhoe - -	6 43 47	48649
Stretley Steeple -	70 57 0	4608	Bowbrickhill - -	14 48 55	22296
Barton Windmill -	79 24 0		Milton Bryant Steeple -	158 27 18	

ART. XI. *Secondary Triangles for the Survey of Part of Surrey and Part of Berkshire. Plate* 11.

The Distances used as Base Lines in the following Triangles are

Hind Head to { Norris's Obelisk - 82191 feet
Highclere Beacon - 160972,2

Hind Head - -	25 20 0	58047	Cæsar's Camp -	82 9 10	50338
Norris's Obelisk -	30 58 57	42264	Finchampstead Steeple	71 7 0	52703
Farnham Beacon -	123 41 3		Bowsey Hill - -	26 43 50	
Hind Head - -	34 6 17	50847	Cæsar's Camp -	66 49 50	88686
Highclere - -	13 29 14	122242	Finchampstead Steeple	97 39 30	82265
Farnham Beacon - -	132 24 29		Nettlebed Windmill -	15 30 40	
Farnham Beacon - -	37 44 34	48488	Cæsar's Camp -	63 53 34	51469
Norris's Obelisk -	82 28 36	29938	Bowsey Hill - -	59 4 30	53877
Finchampstead Steeple	59 46 50		Windsor Castle -	57 1 56	
Bagshot Heath -	103 23 30	9470	Cæsar's Camp -	79 13 34	51456
Norris's Obelisk - -	35 8 38	16004	Nettlebed Windmill -	32 35 30	93844
Cæsar's Camp -	41 27 52		Windsor Castle -	68 10 56	
Norris's Obelisk - -	52 42 9	29959	Cæsar's Camp -	47 51 15	70635
Cæsar's Camp - -	95 9 21	23929	Nettlebed Windmill -	51 44 57	66689
Finchampstead Steeple	32 8 30		Tower on Lord Boston's Estate at Hedsor -	80 23 48	
Hind Head - -	43 13 17	97996			
Highclere - -	36 50 41	111915	Finchampstead Steeple	47 26 36	83458
Finchampstead Steeple	99 56 2		Nettlebed Windmill -	67 13 2	66678
			Lord Boston's Tower -	65 20 22	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Cæsar's Camp - -	47 37 31	19295
Finchampstead Steeple	52 32 9	17959
Wokingham Steeple -	79 50 20	
Cæsar's Camp -	40 1 20	54881
Bowsey Hill - -	76 45 4	36258
St. Lawrence Steeple in Reading - -	63 13 36	
Bowsey Hill -	59 10 24	36131
St, Lawrence Steeple -	60 14 9	35742
Wokingham Steeple -	60 35 27	
Farnham Beacon -	9 23 54	63935
Finchampstead Steeple	144 25 19	17947
Wokingham Steeple -	26 10 47	
Wokingham Steeple -	52 37 50	54978
Finchampstead Steeple	109 25 36	46332
Mortimer Windmill -	17 56 34	
Finchampton Steeple -	36 20 0	20586
Norris's Obelisk -	42 24 20	18086
Barrow on Hartford Bridge Flats - -	101 15 40	
Finchampstead Steeple	23 26 50	20559
Farnham Beacon -	15 26 10	30735
Barrow - - -	141 7 0	
Finchampstead Steeple -	33 39 39	45643
Farnham Beacon -	67 27 46	26391
Odiham Steeple -	78 52 35	
Finchampstead Steeple	55 41 0	39103
Farnham Beacon -	50 41 30	41742
Tilney Hall - -	73 37 30	
Finchampstead Steeple -	29 1 57	27301
Farnham Beacon -	28 17 35	27956
Hartley Wintney Steeple	122 40 28	
Farnham Beacon - -	43 43 45	27982
Barrow on Hartford Bridge Flats - -	61 28 8	22015
Hartley Wintney Steeple	74 48 7	
Finchampstead Steeple	52 28 24	27309
Barrow, Hartford Bridge Flats - -	79 39 42	22016
Hartley Wintney Steeple	47 51 54	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Finchampstead Steeple	29 37 2	53765
Norris's Obelisk -	122 17 31	31431
Station near Ash -	28 5 27	
Norris's Obelisk -	79 52 41	31447
Barrow on Hartford Bridge Flats - -	67 55 6	33407
Station near Ash -	32 12 13	
Finchampstead Steeple -	11 18 54	76261
Nettlebed Windmill	63 25 8	16731
Fawley Steeple -	105 15 58	
Wokingham Steeple	12 26 12	62159
Nettlebed Windmill -	53 3 8	16750
Fawley Steeple -	114 30 40	
Finchampstead Steeple	105 4 47	46584
Cæsar's Camp -	51 17 24	57643
Caversham Park -	23 37 49	
Finchampstead Steeple -	52 32 40	46540
Wokingham Steeple -	105 39 0	38367
Caversham Park -	21 48 20	
Cæsar's Camp - -	10 4 26	41451
Bowsey Hill - -	37 14 36	11978
Ruscombe Steeple -	132 40 58	
Finchampstead Steeple	9 25 0	48208
Bowsey Hill -	56 48 19	9424
Wargrave Steeple -	113 46 41	
Wokingham Steeple -	14 53 59	33418
Bowsey Hill - -	65 56 35	9408
Wargrave Steeple -	99 9 26	
Cæsar's Camp -	92 31 19	38748
Finchampstead Steeple	56 29 14	46428
Shottesbrook Spire -	30 59 27	
Finchampstead Steeple -	131 46 55	25170
Cæsar's Camp -	24 45 26	44819
Shinfield Steeple -	23 27 39	
Finchampstead Steepl	85 40 40	62508
Cæsar's Camp -	72 51 55	65225
Henley Steeple -	21 27 29	
Cæsar's Camp -	25 14 50	65207
Wokingham Steeple -	144 58 30	48460
Henley Steeple -	9 46 40	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Bowsey Hill -	18 0 0	27987
Nettlebed Windmill -	28 42 44	17944
Rotherfield Greys Steeple	133 17 16	
Finchampstead Steeple -	48 28 10	82000
Nettlebed Windmill -	65 33 35	67427
Hedsor House -	65 58 15	
Cæsar's Camp -	25 16 0	33368
Bowsey Hill - -	35 14 12	24686
Windmill on White Waltham Common -	119 29 48	
Finchampstead Steeple	22 50 0	30073
Wokingham Steeple -	129 55 0	15215
Hurst Steeple -	27 15 0	
Cæsar's Camp -	116 59 54	22643
Finchampstead Steeple	30 31 52	39714
Warfield Steeple -	32 28 14	
Cæsar's Camp -	106 24 34	22657
Bagshot Heath -	53 51 46	26912
Warfield Steeple -	19 43 40	
Finchampstead Steeple -	30 48 0	12495
Norris's Obelisk -	18 25 0	20252
Yately Steeple -	130 47 0	
Farnham Beacon -	21 3 20	42806
Odiham Steeple -	129 13 0	19845
Rotherwick Steeple -	29 43 40	
Barrow on Hartford Bridge Flats - -	14 23 50	34963
Farnham Beacon -	109 48 0	9238
Crondall Steeple -	55 48 10	
Barrow on Hartford Bridge Flats - -	16 32 22	46566
Station near Ash -	30 54 18	14469
The 34 mile stone on the Farnham Road -	122 33 20	
Barrow on Hartford Bridge Flats - -	4 39 46	34316
Station near Ash -	105 55 3	2901
Ash Steeple - -	69 25 11	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Finchampstead Steeple	45 22 20	34137
Farnham Beacon -	44 43 28	34509
Frimley Chapel -	89 54 12	
Tilney Hall - -	34 32 0	27506
Rooks Down - -	55 21 0	18954
Hackwood House -	90 7 0	
Tilney Hall - -	42 0 0	11738
Rooks Down -	17 39 0	25926
Basingstoke Town House	120 21 0	
Tilney Hall - -	61 46 40	15963
Rooks Down - -	28 31 0	29461
Farm near Five Lanes End	89 42 20	
Rooks Down - -	24 53 30	19288
Basingstoke Town House	125 18 0	9947
Basing Steeple -	29 48 30	
Rooks Down - -	46 52 0	20489
Tilney Hall - -	37 35 0	24515
Bramley Steeple -	95 33 0	
Finchampstead Steeple	135 28 20	68785
Farnham Beacon -	26 19 0	108803
Dr. Breedon's Tower -	18 12 40	
Finchampstead Steeple	61 30 24	68757
Bowsey Hill - -	71 46 16	63621
Dr. Breedon's Tower	46 43 20	
Hind Head - -	20 41 50	147372
Highclere - -	66 4 20	56983
Beenham Steeple -	93 13 50	
Highclere - -	9 56 38	80169
Dr. Breedon's Tower -	86 50 22	13855
Nunhide Pigeon House	83 13 0	
Farnham Beacon -	37 0 50	49975
Odiham Steeple -	111 45 30	31806
Highfield Park -	31 13 40	

ART. XII. *Secondary Triangles for the Survey of Part of South Wales.*

Plate XII.

The Distances serving as Base Lines for the following Triangles, will be found by referring to the 158th and three succeeding pages of the present volume.

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Precelly Top - -	53 1 30	49938
Brenin Fawr - -	79 0 30	40641
Barrow near Pantsyon -	47 58 0	
Precelly Top - -	37 2 30	64712
Brenin Fawr - -	109 35 0	41376
Warren Bank, highest point - -	33 22 30	
Precelly Top - -	45 8 0	67142
Brenin Fawr - -	101 23 0	48542
Ferwig Steeple -	33 29 0	
Precelly Top - -	56 55 15	58266
Brenin Fawr - -	83 0 45	49187
Rock near Trecoon Farm	40 4 0	
Brenin Fawr -	30 35 0	41375
Barrow near Pantsyon -	76 35 0	21642
Warren Bank - -	72 50 0	
Brenin Fawr - -	22 23 0	48566
Barrow near Pantsyon -	102 59 30	18980
Ferwig Steeple -	54 37 30	
Brenin Fawr -	14 53 0	56401
Barrow near Pantsyon -	133 45 0	20055
Cardigan Island, highest Point - -	31 22 0	
Brenin Fawr - -	36 52 30	15067
Barrow near Pantsyon -	17 33 0	29984
Llanfihangel Penbedw Steeple - -	125 34 30	
Brenin Fawr - -	71 38 0	45933
Barrow near Pantsyon -	59 1 30	50844
Foelary Barrow -	49 20 30	
Brenin Fawr - -	50 37 0	46717
Barrow near Pantsyon	73 3 30	37746
Carnyngly Rock -	56 19 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Brenin Fawr - -	76 10 30	15469
Barrow near Pantsyon -	22 7 0	39898
Foel Dregarn - -	81 32 30	
Precelly Top - -	51 1 30	22289
Barrow near Pantsyon -	25 49 30	39881
Foel Dregarn - -	103 9 0	
Precelly Top -	70 30 45	58302
Nipple Rock -	75 5 15	56878
Rock near Trecoon Farm	34 24 0	
Brenin Fawr -	10 54 0	56352
Rock near Trecoon Farm	119 59 0	12302
Cardigan Island -	49 7 0	
Rock near Trecoon Farm	22 46 0	22125
Cardigan Island -	133 24 30	11786
Hill near Mount Church	23 49 30	
Warren Bank - -	76 24 0	26426
Barrow near Pantsyon -	59 0 30	29962
Llanfihangel Penbedw -	44 35 30	
Brenin Fawr - -	11 54 30	37231
Warren Bank - -	57 13 30	9137
Cardigan Steeple -	110 52 0	
Brenin Fawr - -	20 27 0	27018
Rock near Trecoon Farm	21 34 30	25672
Cilgerran Castle - -	137 58 30	
Warren Bank - -	85 40 0	14714
Rock near Trecoon Farm	34 55 0	25632
Cilgerran Castle -	59 25 0	
Warren Bank -	24 12 0	22181
Barrow near Pantsyon	81 11 0	9201
Rock near Trecoon Farm	74 37 0	
Precelly Top - -	54 59 30	22328
Rock near Trecoon Farm	21 55 0	48997
Foel Dregarn -	103 5 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Precelly Top - -	21 3 0	25330
Foel Dregarn - -	98 12 0	9192
Crigidwy - -	60 45 0	
Brenin Fawr - -	33 44 0	16125
Foel Dregarn -	77 3 0	9188
Crigidwy - -	69 13 0	
Brenin Fawr - -	75 38 0	45911
Rock near Trecoon Farm	49 38 30	58366
Foelary Barrow -	54 43 30	
Precelly Top - -	85 57 0	9752
Rock near Trecoon Farm	9 35 0	58429
Foelary Barrow -	84 28 0	
Precelly Top - -	127 27 11	34055
Brenin Fawr -	24 48 19	64440
Nipple Rock - -	27 44 30	
Nipple Rock - -	63 53 32	37148
Plumstone Down -	40 9 31	51725
Pencarn, highest point	75 56 57	
Nipple Rock - -	77 27 0	13972
Pencarn - - -	21 47 30	36737
Dinas Head, highest point	80 45 30	
Nipple Rock - -	98 20 0	13970
Brenin Fawr -	11 44 45	67887
Dinas Head - -	69 55 15	
Nipple Rock - -	40 42 0	20857
Dinas Head - -	97 42 45	13725
Sunken Rock near Pendroway Head -	41 35 15	
Nipple Rock - -	85 28 0	15974
Dinas Head - -	51 24 30	20374
Eastmost Chimney of Mr. Mathias's House at Fishguard - -	43 7 30	
Nipple Rock - -	89 9 45	18055
Dinas Head -	52 47 30	22667
Carnyngly Rock -	38 2 45	
Dinas Head - -	18 7 30	28309
Carnyngly Rock -	115 41 41	9773
Mr. Jones's Summer House	46 10 49	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Precelly Top - -	58 39 30	51418
Nipple Rock - -	80 30 30	44525
Trefgarn Rock -	40 50 0	
Precelly Top - -	23 6 15	51449
St. Thomas Steeple -	42 40 0	29788
Trefgarn Rock -	114 13 45	
Precelly Top -	57 5 45	132928
Highgate Mountain -	71 2 10	118011
Ramsey Island, highest point - - -	51 52 5	
Precelly Top - -	62 59 0	117223
Highgate Mountain -	61 14 30	119184
Llaeithty Rock -	55 46 30	
Plumstone Down -	69 51 39	57701
Pencarn - - - -	59 30 36	62867
Llaeithty Rock -	50 37 45	
St. Ann's Hill - -	6 56 48	83404
Llaeithty Rock -	95 46 1	10139
Penberry Rock -	77 17 11	
Llaeithty Rock -	85 7 30	9530
Penberry Rock - -	45 30 30	13311
St. David's Cathedral -	49 22 0	
Pencarn - -	8 24 0	64670
Llaeithty Rock -	96 42 0	9512
St. David's Cathedral -	74 54 0	
Pencarn - -	17 19 0	81862
St. David's Cathedral -	118 57 15	27847
Highest point of the Northmost of the Bishop and his Clerks - -	43 43 45	
Penberry Rock -	61 39 15	31530
St. David's Cathedral -	93 25 15	27799
Bishop and his Clerks -	24 55 30	
Plumstone Down -	46 21 54	36546
Pencarn - - - -	44 53 47	37474
Old Windmill -	88 44 19	
Precelly Top - -	46 32 0	21994
Nipple Rock -	40 6 0	24782
Castle Baith Mountain, Barrow - -	93 22 0	

Names of Stations and intersected Objects	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Trefgarn Rock -	32 3 0	30281
Nipple Rock -	40 26 0	24776
Castle Baith Mountain	107 31 0	
Precelly Top -	21 28 30	27866
Castle Baith Mountain -	111 6 10	10935
A Flat Barrow -	47 25 20	
Precelly Top - -	25 5 20	27846
Nipple Rock - -	53 5 30	14767
Flat Barrow - -	101 49 10	
Flat Barrow - -	109 48 40	31286
Castle Baith Mountain	53 48 20	36473
Priscilly Forest House -	16 23 0	
Precelly Top - -	11 58 0	82635
Laeithty Rock -	25 12 20	40233
Garn Rock - -	142 49 40	
Precelly Top - -	26 36 12	54358
Nipple Rock - -	137 4 45	82647
Garn Rock - -	16 18 43	
Plumstone Down -	66 40 15	51391
St. Thomas Steeple -	78 53 45	48090
Moat Steeple - -	34 26 0	
Plumstone Down -	85 31 1	10786
St. Thomas Steeple -	20 29 47	30714
Roch Castle - -	73 59 22	
Roch Castle - -	33 53 10	26276
St. Thomas Steeple -	58 46 30	17132
Rudbaxton Steeple -	88 20 20	
Plumstone Down -	33 11 47	19337
St. Thomas Steeple -	38 14 41	17104
Rudbaxton Steeple -	108 33 52	
Plumstone Down -	51 47 21	10785
Laeithty Rock -	9 25 43	51729
Roch Castle - -	118 46 56	
Laeithty Rock -	16 59 0	25998
Roch Castle - -	15 47 0	27918
Scrabs Island, highest point - -	147 14 0	
Laeithty Rock - -	26 24 43	26005
Plumstone Down -	18 35 0	36299
Scrabs Island -	135 0 17	

Names of Stations and intersected objects.	Angles for Calculation	Distances in Feet.
	° ′ ″	
Laeithty Rock - -	40 11 40	62311
Plumstone Down -	75 53 45	41465
Talbenny Church -	63 54 35	
Roch Castle - -	93 18 19	31922
Laeithty Rock - -	30 44 56	62333
Talbenny Church - -	55 56 45	
Precelly Top - -	28 47 5	86337
Plumstone Down -	102 6 12	42518
Johnston Steeple -	49 6 43	
Plumstone Down -	19 57 50	29613
Johnston Steeple -	34 32 55	17828
St. Thomas Steeple -	125 29 15	
St. Thomas Steeple -	18 8 45	17834
Johnston Steeple -	81 5 45	5625
Boulton Beacon -	80 45 30	
Roch Castle - -	30 58 0	34679
St. Thomas Steeple -	86 51 45	17871
Boulton Beacon -	62 10 15	
St. Ann's Hill -	112 5 30	16571
Milford Steeple -	21 44 0	41467
Green Mire Hill -	46 10 30	
St. Ann's Hill - -	106 51 45	16534
Hubberstone Steeple -	26 33 5	35398
Green Mire Hill -	46 35 10	
St. Ann's Hill -	124 13 10	4318
Green Mire Hill -	10 39 14	19314
St. Ann's Lighthouse -	45 7 36	
St. Ann's Hill - -	31 49 30	30852
Green Mire Hill -	120 42 10	18921
High rock, near south extremity of Scomer Island	27 28 20	
Green Mrie Hill -	109 52 50	18860
St. Ann's Lighthouse -	34 34 54	31248
Scomer Island -	35 32 16	
Plumstone Down -	45 6 48	78249
St. Ann's Hill - -	75 25 24	57283
St. Daniel's Spire -	59 27 48	
Newton Down -	56 14 34	20428
Plumstone Down -	20 51 15	47709
Lord Milford's Summer House - -	102 54 11	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Precelly Top - -	60 41 52	12883
Castle Baith Mountain -	35 36 20	19296
Maenclochog Steeple -	83 41 48	
St. Ann's Hill -	35 19 22	26868
Sir H. Owen's Summer House - -	28 49 11	32226
Hubberstone Steeple -	115 51 27	
St. Ann's Hill - -	26 40 38	34631
Sir H. Owen's Summer House - -	38 59 1	24715
Mr. Roch's Summer House	114 20 31	
St. Ann's Hill -	93 44 2	4318
Sir H. Owen's Summer House - -	4 52 58	50621
St. Ann's Lighthouse -	81 23 0	
St. Ann's Hill - -	5 27 10	53272
Sir H. Owen's S. House	119 35 36	5822
Highgate Mountain -	54 57 14	
St. Ann's Hill - -	8 7 18	45255
Sir H. Owen's S. House	50 3 6	8321
Warren Spire - -	121 49 36	
St. Ann's Hill -	1 46 34	56553
Sir H. Owen's S. House	164 36 45	6606
St. Petrox Steeple -	13 36 41	
Sir H. Owen's S. House	97 38 22	14418
St. Petrox Steeple -	59 11 18	16638
Flimston Chapel -	23 10 20	
Sir H. Owen's S. House	62 3 0	14376
St. Ann's Lighthouse -	16 8 20	45684
Flimston Chapel -	101 48 40	
Sir H. Owen's S. House	77 5 50	13391
Warren Spire - -	67 47 10	14099
Bosheston Steeple -	35 7 0	
Sir H. Owen's S. House	60 16 0	13381
Flimston Chapel -	56 16 0	13973
Bosheston Steeple -	63 28 0	
Bosheston Steeple -	103 48 10	6786
Flimston Chapel -	22 54 40	17322
Lord Cawdor's Summer House - -	53 17 10	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	″ ° ′	
Flimston Chapel -	45 1 40	16783
Sir H. Owen's S. House	77 56 50	12141
Lord Cawdor's Summer House with cupola -	57 1 30	
Sir H. Owen's S. House	17 38 40	12162
Bosheston Steeple -	64 1 20	4101
Summer House with cupola - -	98 20 0	
Hubberstone Steeple -	72 52 32	16082
Green Mire Hill -	26 37 20	34299
Old Windmill near Angle	80 30 8	
Sir H. Owen's S. House	29 30 30	30572
Hubberstone Steeple -	69 32 0	16073
Old Windmill - -	80 57 30	
Newton Down -	37 52 1	44097
Marros Beacon -	36 38 46	45349
Whitewell Old Windmill	105 29 13	
Newton Down -	64 55 39	44084
Highgate Mountain -	77 37 47	40879
Whitewell Old Windmill	37 26 34	
Highgate Mountain -	15 47 19	40931
Whitewell Old Windmill	82 22 1	11237
St. Florence Old Windmill	81 50 40	
Highgate Mountain -	23 7 39	34590
St. Florence Old Windmill	56 7 30	16364
Middle Hill Old Windmill	100 44 51	
St. Florence Old Windmill	25 42 0	16358
Whitewell Old Windmill	116 17 0	7912
Middle Hill Old Windmill	38 1 0	
Newton Down - -	14 11 18	50604
Whitewell Old Windmill	111 50 17	13363
Old Windmill, Fire Beacon on its top - -	53 58 25	
St. Florence Old Windmill	63 59 20	13676
Whitewell Old Windmill	66 54 50	13361
Old Windmill -	49 5 50	
St. Florence Old Windmill	23 55 52	6943
Whitewell Old Windmill	29 56 10	5643
St. Florence Steeple -	126 7 48	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
St. Florence Old Windmill	98 45 14	6929	Precelly Top - -	57 45 4	59194
Newton Down - -	10 12 13	38661	Plumstone Down -	54 54 47	61181
St. Florence Steeple -	71 2 33		Newton Steeple -	67 20 9	
St. Florence Old Windmill	107 11 0	10992	Precelly Top - -	5 23 35	50690
Old Windmill Fire Beacon	31 49 15	15917	Newton Steeple -	28 37 40	9944
Jeffreston Steeple -	40 59 45		Robeston Wathen Steeple	145 58 45	
St. Florence Old Windmill	66 8 34	10989	Precelly Top - -	61 13 0	50634
Newton Down -	17 9 28	34066	Trefgarn Rock -	58 38 0	51974
Jeffreston Steeple -	96 41 58		Robeston Wathen Steeple	60 9 0	
Jeffreston Steeple -	79 31 0	24431	Robeston Wathen Steeple	108 25 50	6651
Old Windmill, Fire Beacon	57 13 0	28574	Newton Steeple -	27 38 40	13599
Carew Beacon -	43 16 0		Old Castle - -	43 55 30	
Jeffreston Steeple -	38 32 0	24447	Precelly Top - -	5 5 7	45585
St. Florence Old Windmill	118 6 0	17265	Robeston Wathen Steeple	37 32 55	6630
Carew Beacon -	23 22 0		Old Castle - -	137 21 58	
Jeffreston Steeple -	162 59 15	6685	Robeston Wathen Steeple	71 54 0	21622
St. Florence Old Windmill	6 25 10	17454	Newton Steeple -	81 4 40	20803
Loveston Steeple -	10 35 35		Wiston Steeple -	27 1 20	
Highgate Mountain -	21 13 33	47342	Robeston Wathen Steeple	35 20 10	13802
St. Florence Old Windmill	100 33 50	17436	Newton Steeple -	99 21 30	8091
Loveston Steeple -	58 12 37		Old House - -	45 18 20	
St. Florence Old Windmill	139 34 20	30689	Precelly Top - -	13 4 37	62125
Highgate Mountain -	17 11 56	67303	Robeston Wathen Steeple	125 1 30	17165
Ludchurch Steeple -	23 13 44		Minwear Steeple -	41 53 53	
Highgate Mountain -	44 38 32	67334	Precelly Top - -	8 13 30	62131
Newton Down -	113 23 41	51552	Newton Down -	21 55 12	23810
Ludchurch Steeple -	21 57 47		Minwear Steeple -	149 51 18	
Highgate Mountain	13 27 48	67317	Precelly Top - -	43 40 0	15974
Marros Beacon -	43 51 37	22619	Maenclochog Steeple	83 4 0	11111
Ludchurch Steeple -	122 40 45		Llangolman Church -	53 16 0	
St. Florence Old Windmill	33 56 10	16632	Precelly Top -	80 11 40	31754
Jeffreston Steeple -	106 49 15	9700	Roch Castle -	23 30 58	78419
Begeley Steeple -	39 14 35		Llandissilio Church -	76 17 22	
St. Florence Old Windmill	140 55 10	16639	Precelly Top - -	92 10 15	31738
Highgate Mountain -	11 1 22	54863	Castle Baith Mountain	53 49 8	39293
Begeley Steeple -	28 3 28		Llandissilio Church -	34 0 37	
Precelly Top -	53 18 0	116617	New Inn Hill -	53 24 5	90602
Lannon - -	46 45 50	128338	Capel Kynon -	83 13 53	73249
Wool House, Caldy Island	79 56 8		Brenin Fawr - -	43 22 2	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Precelly Top - -	14 9 30	37785
Capel Kynon - -	7 14 55	73256
Brenin Fawr - -	158 35 35	
Talsarn - -	40 7 7	138225
New Inn Hill -	100 32 45	90599
Brenin Fawr - -	39 20 8	
Brenin Fawr - -	110 27 0	40616
Rock near Trecoon Farm	30 59 0	73926
Moelfre Barrow -	38 34 0	
Capel Kynon - -	40 7 53	26729
Brenin Fawr - -	18 3 57	55555
Pile on a Stone Quarry near Bettws Einon	121 48 10	
Brenin Fawr -	52 53 42	40605
Quarry Pile - -	46 11 48	44872
Moelfre Barrow - -	80 54 30	
Brenin Fawr -	34 52 8	40571
Capel Kynon -	30 7 52	46205
Moelfre Barrow - -	115 0 0	
Capel Kynon -	105 53 56	23476
Brenin Fawr - -	15 49 12	82820
Pile on Llandissilio Head	58 16 52	
Capel Kynon - -	65 45 36	23519
Quarry Pile - -	51 28 30	27411
Llandissilio Head - -	62 45 54	
Quarry Pile - -	75 37 40	26735
Moelfre Barrow -	34 6 40	46180
Capel Kynon -	70 15 40	
Moelfre Barrow -	31 17 33	38865
Capel Kynon - -	57 15 0	24002
Bettws Einon - -	91 37 27	
Capel Kynon - -	13 0 15	24008
Quarry Pile - -	58 16 33	6351
Bettws Einon - -	108 43 12	
Capel Kynon - -	64 20 0	12825
Quarry Pile - -	28 37 30	24127
Pile on the Moor right of the road to Capel Kynon	87 2 30	
Capel Kynon - -	51 20 0	12818
Bettws Einon - -	32 2 0	18869
Pile on the Moor -	96 38 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Quarry Pile - -	93 36 15	9692
Moelfre Barrow -	11 58 48	46600
Blaenporth Church -	74 24 57	
Quarry Pile - -	140 35 45	9674
Pile on the Moor -	10 59 48	32193
Blaenporth Church -	28 24 27	
Quarry Pile - -	47 0 10	24126
Moelfre Barrow -	31 50 17	33450
Pile on the Moor -	101 9 33	
Capel Kynon - -	26 59 16	52158
Moelfre Barrow - -	90 40 45	23671
Middle of Three Barrows on Newcastle Mountain	62 19 30	
Pile on the Moor -	34 15 50	41963
Moelfre Barrow -	92 57 58	23652
Middle Barrow -	52 46 12	
Pile on the Moor - -	19 27 25	31378
Moelfre Barrow -	69 42 17	11144
Penboir Church -	90 50 18	
Capel Kynon - -	13 49 7	43156
Moelfre Barrow -	67 25 40	11163
Penboir Church -	98 45 13	
Moelfre Barrow -	81 51 0	6820
Middle Barrow -	16 34 0	23677
Crug-moch - -	81 35 0	
Moelfre Barrow -	72 28 0	6811
Brenin Fawr - -	9 34 0	39088
Crug-moch - -	97 58 0	
Crug-moch - -	75 50 10	9818
Brenin Fawr - -	14 32 50	37901
Crug-wan - -	89 37 0	
Middle Barrow -	19 59 30	27834
Crug-moch - -	104 36 30	9834
Crug-wan - -	55 24 0	
Crug-moch - -	21 9 27	35632
Brenin Fawr - -	65 30 48	14132
Kilwendague House, centre Pediment - -	93 19 45	
Brenin Fawr - -	55 56 48	14132
Moelfre Barrow - -	19 42 37	34711
Kilwendague - -	104 20 35	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Brenin Fawr - -	47 10 37	17669
Crug-moch - -	25 34 32	30020
Chimney in the centre of Finone House -	107 14 51	
Brenin Fawr -	44 39 27	7527
Finone - -	23 14 48	13403
Brenin Fach - -	112 5 45	
Brenin Fawr - -	128 30 6	7519
Craig y dwy -	15 47 35	21622
Brenin Fach - -	35 42 19	
Brenin Fawr - -	18 10 13	56392
Quarry Pile - -	83 35 30	17696
Alderbrook Hall, centre Pediment -	78 14 17	
Brenin Fawr -	41 46 22	7530
Alderbrook Hall -	5 38 31	51021
Brenin Fach - -	132 35 7	
Brenin Fawr - -	51 31 30	33635
Crug-moch - -	55 24 22	31988
Llanwinio Church -	73 4 8	
Brenin Fawr - -	36 59 7	33617
Crug-wan - -	61 21 15	23045
Llanwinio Church -	81 39 38	
Brenin Fawr - -	74 30 0	16113
Llanwinio Church -	27 54 23	33174
Craig y dwy - -	77 37 37	
Crug-moch - -	44 39 50	13674
Crug-wan - -	89 24 0	9613
Post Gwyn Direction-post	45 56 10	
Capel Kynon - -	65 18 30	26991
Middle Barrow -	30 57 30	47674
Pen Voel Hadog -	83 44 0	
Capel Kynon - -	98 13 17	12833
Pen Voel Hadog -	23 45 45	31496
Pile on the Moor -	58 0 58	
Capel Kynon -	31 4 0	27514
Middle Barrow -	26 29 21	31827
Intrenchment on Pen Coed Voel - -	122 25 23	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Capel Kynon -	34 14 0	27561
Pen Voel Hadog -	74 49 0	16054
Pen Coed Voel - -	70 57 0	
New Inn Hill -	47 4 22	89253
Capel Kynon -	88 22 0	65381
Talsarn Barrow -	44 33 38	
New Inn Hill - -	76 28 48	27044
Capel Kynon -	25 1 27	62163
Crug-edrid - -	78 29 45	
Capel Kynon - -	63 22 30	62198
Talsarn Barrow -	55 59 53	67070
Crug-edrid - -	60 37 37	
New Inn Hill - -	65 32 40	14003
Capel Kynon - -	12 38 13	58265
Crug-gair - -	101 49 7	
Capel Kynon - -	12 21 31	58266
Crug-edrid - -	67 7 23	13535
Crug-gair - -	100 31 7	
Capel Kynon - -	46 22 45	74139
Talsarn Barrow -	75 9 0	55525
Shepherd's Pen - -	58 28 30	
Talsarn Barrow - -	13 21 38	56028
Crug-edrid - -	45 52 19	18037
Largest Carn on the summit of Rhyd y bont Mountain - -	120 46 3	
Talsarn Barrow -	5 47 29	56014
Shepherd's Pen -	92 3 32	5656
Rhyd y bont Mountain	82 9 0	
Capel Kynon - -	39 59 39	44449
Shepherd's Pen -	35 28 30	49247
Pen y Voel Dyhewydd	104 32 0	
Talsarn Barrow -	62 6 46	21777
Shepherd's Pen -	23 0 7	49257
Pen y Voel Dyhewydd	94 53 7	
Pen y Voel Dyhewydd	111 46 0	39474
Talsarn Barrow -	45 11 32	51672
Centre Pediment of a House - -	23 2 28	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Talsarn Barrow - -	42° 47′ 14″	18285
House, Centre Pediment	17 59 1	40221
Moelfre Hill - -	119 13 45	
Pen y Voel Dyherwydd	99 26 45	3629
House, Centre Pediment	5 6 23	40220
Moelfre Hill -	75 33 52	
Pen y Voel Dyherwydd	81 49 0	5048
Moelfre Hill -	59 46 30	5783
Dyhewydd Belfry - -	38 24 30	
Rhyd y bont Mountain	57 55 52	27944
Crug-edrid - -	82 18 0	23894
Llanwenog Church -	39 46 0	
Rhyd y bont Mountain	144 59 52	5668
Llanwenog Church -	5 41 53	32750
Shepherd's Pen -	29 18 15	
Rhyd y bont Mountain	31 32 4	34216
Crug-edrid - -	121 52 11	21072
Llanlwny Church Tower	26 35 45	
Rhyd y bont Mountain	22 28 26	9739
Shepherd's Pen -	131 48 48	4995
Chimney of Cottage on a Hill - - -	25 42 46	
Crug-edrid - -	102 41 52	23892
New Inn Hill - -	35 49 8	39829
Llanwenog Church Tower	41 29 0	
Crug-edrid - -	39 33 41	21069
Llanwenog Church Tower	60 18 58	15446
Llanlwny Church Tower	80 7 21	
Llanwenog Church Tower	108 54 58	13619
Llanlwny Church Tower	32 58 14	23674
Pencarreg Belfry -	38 6 48	
Llanwenog Church Tower	46 23 6	8169
Llanlwny Church Tower	31 5 1	11456
Highmead House, eastmost Chimney -	102 31 53	
Lannon - -	57 30 45	62622
New Inn Hill - -	46 8 11	73263
Barrow on Llangynog Mountain - - -	76 21 3	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Lannon - -	42° 19′ 27″	62600
Wool House -	27 11 37	92233
Llangynog Mountain	110 28 56	
Llannon - -	81 24 52	62588
Worms Head - -	41 31 8	93362
Llangynog Mountain -	57 4 0	
New Inn Hill - -	48 30 47	73271
Precelly Top -	35 10 13	95290
Llangynog Mountain	96 19 0	
Llangynog Mountain	42 56 41	42777
Precelly Top - -	24 29 28	70302
Station in a hedge near the five mile stone from St. Clare - -	112 33 51	
Marros Beacon - -	148 5 15	17805
Tenby Spire -	10 54 41	49722
Station in Hedge -	21 0 4	
Precelly Top - -	8 34 0	70302
Marros Beacon -	35 56 30	17841
Station in a Hedge -	135 29 30	
Precelly Top -	8 27 15	10630
Station in Hedge -	68 2 0	67054
West Chimney of Tavernspite Inn - -	103 30 45	
Marros Beacon -	35 30 22	16918
Station in Hedge -	67 28 0	10638
Tavernspite Inn -	77 1 38	
Llangynog Mountain -	22 7 33	15257
Station in Hedge -	11 27 33	28925
Llanfihangel Abercowyn Church - -	146 24 54	
Llangynog Mountain -	99 16 45	30924
New Inn Hill - -	21 18 18	84000
Barrow on Llansaint Hill	59 24 57	
Llangynog Mountain -	22 55 52	30887
Lannon Station -	19 24 46	36208
Barrow on Llansaint Hill	137 39 22	
Llangynog Mountain -	87 33 15	30910
Wool House, Caldy Isle	18 45 42	96016
Barrow on Llansaint Hill	73 41 3	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Llangynog Mountain	33 11 30	19137
Llansaint Hill - -	35 8 33	18201
Llanstephan Castle, high square Turret -	111 39 57	
Llansaint Hill -	51 43 0	22745
Lannon Station -	38 54 53	28423
Penbree Hill - -	89 22 7	
Llangynog Mountain -	26 53 19	53465
Lannon Station -	58 20 26	28407
Penbree Hill - -	94 46 15	
Lannon Station -	27 15 20	28384
Kidwelly Spire -	52 7 3	16470
Penbree Hill - -	100 37 37	
Lannon Station -	78 36 41	37436
Llangynog Mountain -	33 37 0	66288
Nelson's Tower -	67 46 19	
Lannon Station -	98 2 45	37432
Llansaint Hill -	41 48 15	55600
Nelson's Tower -	40 9 0	
Llangynog Mountain -	60 30 18	66316
Penbree Hill - -	70 9 52	61375
Nelson's Tower -	49 19 50	
Marros Beacon -	127 47 30	17825
Worms Head - -	8 1 23	100925
Station in Hedge -	44 11 7	
Worms Head - -	14 29 51	82371
Station in Hedge -	44 14 9	29559
Laugharne Church Tower	121 16 0	
Llansaint Hill -	99 33 7	7471
Penbree Hill - -	17 6 30	25044
Llansaint Steeple -	63 20 23	
Llangynog Mountain -	13 56 57	29339
Llansaint Hill -	71 4 45	7479
Llansaint Steeple -	94 58 18	
Lannon Station -	45 8 7	20321
Nelson's Tower -	31 56 42	27222
Mancha Hill - -	102 55 11	
Lannon Station -	52 53 41	20317
Llansaint Hill - -	34 4 49	28917
Mancha Hill - -	93 1 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Llansaint Hill - -	103 34 33	28897
Llangynog Mountain -	36 42 12	47000
Mancha Hill - -	39 43 15	
New Inn Hill -	15 21 53	48475
Llangynog Mountain	25 49 37	29482
Barrow on the high land between Abernant and Cyn Wyl Elvet -	138 48 30	
Llangynog Mountain	88 24 10	29435
Mancha Hill - -	32 30 13	54756
Barrow between Abernant and Cyn Wyl Elvet -	59 5 37	
New Inn Hill - -	29 22 13	39461
Barrow near Cyn Wyl	53 57 7	23937
Barrow at the entrance of the Moor, and close to the Road from Caermarthen to Newcastle in Emlyn - -	96 40 40	
New Inn Hill -	44 44 6	39464
Llangynog Mountain -	31 32 47	53089
Moor Barrow -	103 43 7	
Llansaint Hill -	15 26 18	23357
Mancha Hill - -	44 12 0	8918
Llangendeirne Church -	120 21 42	
Llangendeirne Church	44 13 48	17675
Mancha Hill - -	106 54 26	12887
Llandarrog Church -	28 51 46	
Llansaint Hill -	8 47 55	40650
Mancha Hill - -	151 6 7	12867
Llandarrog Church -	20 5 58	
Crug-edrid - -	26 34 33	37706
New Inn Hill - -	111 35 47	18142
Brechva Mountain, highest Point - -	41 49 40	
New Inn Hill - -	78 56 26	18137
Barrow near Cyn Wyl	21 35 37	48368
Brechva Mountain -	79 27 57	
Mancha Hill - -	54 33 39	50395
Barrow near Cyn Wyl	58 7 21	48351
Brechva Mountain -	67 19 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Mancha Hill - -	37 15 7	27230
Brechva Mountain -	29 51 8	33114
Nelson's Tower -	112 53 45	
Crug-edrid - -	84 16 41	32976
Brechva Mountain -	43 37 57	47551
Dinas Rock, highest Point	52 5 22	
Brechva Mountain -	45 44 34	67092
Dinas Rock - -	89 7 49	48058
Trechrig Mountain -	45 7 37	
Dinas Rock - -	98 26 0	31812
Trechrig Mountain -	30 49 53	61398
Cyn y Gaio Barrow -	50 44 7	
Crug-edrid - -	64 7 42	17991
Dinas Rock - -	32 47 33	29889
Rhydybont Mountain -	83 4 45	
Crug-edrid -	88 48 25	45257
Brechva Mountain -	50 54 50	58306
Ruins of Sir Nicholas's Tower - -	40 16 45	
Dinas Rock - -	130 52 26	12705
Rhydybont Mountain	14 7 7	39295
Sir Nicholas's Tower	35 0 52	
Dinas Rock - -	106 56 37	24412
Sir Nicholas's Tower -	49 43 11	30612
Large Stone on Llanycrwys Mountain - -	23 20 12	
Sir Nicholas's Tower	14 42 20	39318
Llanycrwys Mountain	126 38 55	12413
Rhydybont Mountain -	38 38 45	
Rhydybont Mountain -	135 50 22	12448
Crug-edrid - -	17 50 30	28304
Llanycrwys Mountain -	26 19 8	
Rhydybont Mountain -	21 13 30	5665
Llanycrwys Mountain	15 56 7	7470
Shepherds Pen on Pencarreg Mountain -	142 50 23	
Dinas Rock - -	98 0 0	10431
Sir Nicholas's Tower	36 10 15	17501
Barrow on TalleyMountain	45 49 45	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Rhydybont Mountain	26 11 22	37600
Sir Nicholas's Tower -	71 11 30	17529
Talley Barrow -	82 37 8	
Dinas Rock - -	43 19 21	12676
Cyn y Gaio Mountain	21 3 24	24207
Sir Nicholas's Tower -	115 37 15	
Dinas Rock -	111 24 18	3038
Cyn y Gaio Mountain -	4 54 35	33043
Llansowel Church Tower	63 41 7	
Nelson's Tower -	42 52 0	38582
Mancha Hill -	92 17 10	26268
Station near Mount Pleasant - -	44 50 50	
Nelson's Tower -	34 39 0	38589
Llansaint Hill -	42 36 23	32410
Mount Pleasant Station -	102 44 37	
Nelson's Tower -	11 43 15	42756
Mount Pleasant Station	110 39 30	9282
Centre Chimney of Penlan House - -	57 37 15	
Mancha Hill - -	85 59 7	34942
Nelson's Tower -	54 35 15	42770
Penlan House -	39 25 38	
Mount Pleasant Station	95 9 0	15292
Mancha Hill -	28 51 20	31559
Llangain Church -	55 59 40	
Mount Pleasant Station	51 26 15	12112
Mancha Hill - -	26 50 53	20976
Llan House, centre Chimn.	101 42 52	
Llansaint Hill -	128 44 23	10017
Penbree Hill - -	15 4 19	30048
Llandevaelog Church -	36 11 18	
Mount Pleasant Station	157 20 15	9574
Mancha Hill - -	5 59 57	35296
House, West end of Caermarthen - -	16 39 48	
Mancha Hill - - -	26 1 48	35284
Llangynog Mountain -	45 21 7	21764
House, &c. - - -	108 37 5	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Llangynog Mountain -	88 14 30	23198
Precelly Top - -	13 46 30	97379
Sir John's Hill House	77 59 0	
Llangynog Mountain -	156 54 3	29522
Nelson's Tower -	7 3 52	94152
Llanginning Steeple -	16 2 5	
Llangynog Mountain -	70 23 3	29527
Sir John's Hill House -	64 28 5	30823
Llanginning Steeple -	45 8 52	
Mount Pleasant Station	50 49 0	8926
Nelson's Tower -	11 51 33	33666
Aberguili Church -	117 19 27	
Nelson's Tower -	154 43 7	17302
Llangynog Mountain -	5 9 0	82317
Llangathen Church -	20 7 53	
Nelson's Tower -	77 38 3	17295
Brechva Mountain -	29 52 12	33921
Llangathen Church -	72 29 45	
Nelson's Tower -	93 52 40	16814
Mancha Hill - -	30 35 58	32958
Pile on the Great Mount.	55 31 22	
Lannon Station -	26 41 0	33048
Nelson's Tower -	61 57 0	16816
Great Mountain - -	91 22 0	
Lannon Station -	95 40 22	36204
Cefn Bryn -	28 36 8	75255
Llansaint Hill -	55 43 30	
Lannon Station -	113 7 49	62499
Trecastle, old Station -	22 56 12	147480
Cefn Bryn -	43 55 59	
Mancha Hill -	82 19 22	28512
Llangynog Mountain -	33 11 3	51627
Highest Point of Hill near Alt y Gog - -	64 29 35	
Mancha Hill -	50 17 3	28493
Mount Pleasant Station	69 48 22	23353
Hill near Alt y Gog -	59 54 35	
Margam Down -	33 16 55	19616
Kilvey Hill Windmill -	17 24 12	35990
Voul Vawr Barrow -	129 18 53	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Margam Down - -	24 28 21	60771
Kilvey Windmill -	100 17 22	25586
Mumbles Lighthouse	55 14 17	
Kilvey Windmill -	93 33 30	81696
Margam Down -	55 36 33	98810
Carreg Glwydd -	30 49 57	
Margam Down -	80 5 15	98795
Mumbles Lighthouse -	65 47 13	106707
Carreg Glwydd -	34 7 32	
Kilvey Windmill -	18 31 30	51293
Carreg Glwydd - -	26 14 22	36860
Roman Camp on Bettws Mountain - -	135 14 8	
Kilvey Windmill -	106 30 23	75077
Margam Down -	44 57 52	101862
Tre Carn Issa Centre Karn	28 31 45	
Kilvey Windmill -	12 57 15	75084
Carreg Glwydd -	63 8 38	18868
Tre Carn Issa -	103 54 7	
Margam Down -	71 39 22	108933
Kilvey Windmill -	80 57 22	104698
New Station on Trecastle Beacon - -	27 23 16	
Kilvey Windmill -	12 35 23	104678
Carreg Glwydd -	131 53 20	30649
Trecastle Beacon - -	35 31 15	
Kilvey Windmill - -	25 32 53	104695
Tre Carn Issa -	113 13 40	49112
Trecastle Beacon -	41 13 27	
Kilvey Windmill -	26 19 3	41598
Roman Camp -	52 47 8	23158
Llanguke Church -	100 53 49	
Kilvey Windmill - -	8 33 0	45627
Roman Camp - -	47 42 0	91771
White House -	123 45 0	
Carreg Glwydd - -	102 35 15	21294
Trecastle Beacon -	30 28 37	40962
Eastmost Carn on Trechrig Mountain -	46 53 41	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Trecastle Beacon -	° ′ ″ 24 46 2	40981
Tre Carn Issa -	55 16 43	20888
Trechrig Mountain -	99 56 15	
Carreg Glwydd -	62 21 56	21326
Tre Carn Issa - -	64 35 30	20917
Trechrig Mountain -	53 2 34	
Kilvey Windmill - -	136 29 22	39448
Margam Down - -	18 53 41	83870
Cefn Bryn, near Pont ar Dulas - -	24 36 57	
Kilvey Windmill -	119 5 30	39421
Voul Vawr - -	31 59 11	65030
Cefn Bryn P. - -	28 55 19	
Kilvey Windmill - -	80 32 15	53503
Cefn Bryn P. - -	59 51 45	61024
Cefn Bryn Station -	39 36 0	
Cefn Bryn P. - -	75 38 40	35507
Cefn Bryn - -	33 22 25	62531
Lannon Station -	70 58 55	
Trechrig Mountain -	64 21 30	46023
Trecastle Beacon -	63 5 30	46633
St. Mary on the Hill Steeple, Llandovery	52 33 0	
Trechrig Mountain -	48 7 0	39999
Carreg Glwydd -	100 16 0	30264
Barrow on the Van -	31 37 0	
Trechrig Mountain -	1 12 40	39964
Trecastle Beacon -	39 42 10	1322
Barrow on the Van -	139 5 10	
Trechrig Mountain -	14 20 37	25788
Barrow on the Van -	23 3 56	16306
Llandeveysant Church	142 35 27	
Trechrig Mountain -	14 38 47	26951
Trecastle Beacon - -	24 35 2	16381
Westmost Barrow on Carnglass - - -	140 46 11	
Trechrig Mountain -	32 14 18	26952
Carreg Glwydd - -	95 54 30	14453
Westmost Barrow -	51 51 12	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Trechrig Mountain -	° ′ ″ 64 13 7	15470
Trecastle Beacon - -	22 8 15	36968
Voel y Vraith - -	93 38 38	
Trechrig Mountain -	17 19 26	15491
Carreg Glwydd - -	35 16 15	7988
Voel y Vraith - -	127 24 19	
Carreg Glwydd -	36 54 16	18863
Roman Camp -	27 28 51	24546
Tre Carn Issa -	115 36 53	
Cefn Bryn - -	89 49 35	32113
Lannon Station - -	27 13 11	70208
Barrow on Rosilly Mount.	62 57 14	
Lannon Station - -	68 27 15	70236
Llansaint Hill - -	80 56 11	66147
Rosilly Barrow -	30 36 34	
Cefn Bryn - -	73 0 15	12553
Rosilly Barrow -	22 53 0	30874
West Chimney of House on Oxwich Point -	84 6 45	
Cefn Bryn - -	63 37 32	28359
Lannon Station - -	26 58 4	56026
East Signal Staff on Lanmadoc Hill - -	89 24 24	
Cefn Bryn - -	26 12 0	28351
Rosilly Barrow -	61 55 54	14186
East Signal Staff -	91 52 6	
Lannon Station -	68 42 22	56014
Llainsaint Hill -	73 5 11	54550
East Signal Staff - -	38 12 27	
Cefn Bryn - -	67 52 45	31061
Lannon Station -	29 30 41	58414
West Signal Staff on Lanmadoc Hill - -	82 36 34	
Cefn Bryn - -	21 57 37	31047
Rosilly Barrow -	74 2 45	12075
West Signal Staff -	83 59 38	
Lannon Station -	66 9 45	58410
Llansaint Hill - -	76 43 26	54894
West Signal Staff -	37 6 49	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Cefn Bryn - -	44 47 59	2467
Rosilly Barrow -	3 16 33	30421
Nicholaston Church -	131 56 28	
Cefn Bryn - -	22 0 45	8773
Rosilly Barrow -	7 48 30	24204
Penrice Steeple -	150 10 45	
Lannon Station -	42 23 52	51617
Penbree Hill - -	105 33 52	36124
East Turret of Webley House - -	32 2 16	
Lannon Station -	85 20 33	51582
Cefn Bryn P. - -	58 39 4	60199
Webley House -	36 0 23	
Lannon Station - -	49 12 22	52094
Penbree Hill - -	98 6 11	39836
Llanridian Steeple -	32 41 27	
Cefn Bryn - -	54 28 37	49768
Rosilly Barrow -	85 29 15	40632
Penbree Steeple - -	40 2 8	
Cefn Bryn - -	85 5 0	38112
Rosilly Barrow -	52 46 34	47686
Llanelly Steeple -	42 8 26	
Cefn Bryn - -	30 36 34	38154
Penbree Steeple -	48 55 47	25770
Llanelly Steeple -	100 27 39	
Cefn Bryn - -	77 42 37	38135
Kilvey Windmill -	39 23 8	58721
Llanelly Steeple -	62 54 15	
Lannon Station - -	43 31 55	36059
Cefn Bryn P. - -	69 20 25	26543
Loughor Glass Work -	67 7 40	
Lannon Station -	54 39 33	36092
Rosilly Barrow - -	30 49 19	57460
Glass Work - - -	94 31 8	
Cefn Bryn P. - -	27 15 15	41879
Cefn Bryn - -	38 52 6	30561
Machynis, West Chimney	113 52 39	
Cefn Bryn - -	84 20 5	30551
Rosilly Barrow -	46 15 22	42083
Machynis - -	49 24 33	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Cefn Bryn P. - -	58 54 59	20852
Cefn Bryn - -	19 33 43	53336
Llangevelach Steeple -	101 31 18	
Lannon Station -	54 26 32	52210
Cefn Bryn - -	52 56 54	53304
Llangevelach Steeple -	72 37 24	
Llangevelach Steeple	14 25 31	19522
Cefn Bryn P. - -	68 11 37	5238
Barrow on Green Hill	97 22 52	
Cefn Bryn P. -	67 14 26	5235
Kilvey Windmill -	7 21 14	37719
Barrow on Green Hill -	105 24 20	
Cefn Bryn P. - -	24 15 22	12242
Barrow on Green Hill -	139 40 33	7772
Barrow on the Moor -	16 4 5	
Matgam Down - -	21 25 15	80066
Kilvey Windmill -	129 8 8	37699
Barrow on Green Hill	29 26 37	
Margam Down - -	34 11 18	80046
Carreg Glwydd -	54 4 32	55544
Barrow on Green Hill	91 44 10	
Carreg Glwydd -	20 4 0	86831
Kilvey Windmill - -	89 43 7	29793
Signal Staff - - -	70 11 43	
Carreg Glwydd -	43 18 35	86807
Barrow on Green Hill	97 17 40	60031
Signal Staff - - -	39 23 45	
Carreg Glwyd -	33 42 49	86035
Margam Down -	60 18 3	54975
Swansea Castle - -	85 59 8	
Kilvey Windmill -	132 0 48	6052
Margam Down -	4 41 30	54976
Swansea Castle -	43 17 42	
Margam Down -	11 12 37	57078
Kilvey Windmill -	115 18 41	12275
Moriston Steeple - -	53 28 42	
Margam Down - -	23 32 36	80056
Tre Carn Issa - -	48 19 16	42815
Barrow on Green Hill -	108 8 8	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Barrow on Green Hill -	104 1 46	5236
Dinas Hill - -	6 43 53	43338
Cefn Bryn P. - -	69 14 21	
Tre Carn Issa - -	77 18 48	9617
Barrow on Green Hill -	12 58 50	41770
Dinas Hill - -	89 42 22	
Cefn Bryn P. - -	80 13 27	28697
Dinas Hill - -	36 19 26	47743
Lannon Steeple -	63 27 7	
Cefn Bryn P. - -	83 26 0	28675
Cefn Bryn - -	26 15 28	64388
Lannon Steeple -	70 18 32	
Carreg Glwydd -	79 57 2	72820
Margam Down -	39 47 18	112043
Lannon Steeple -	60 15 40	
Trechrig Mountain -	23 51 52	23660
Tre Carn Issa - -	94 23 34	9601
Dinas Hill - -	61 44 34	
Tre Carn Issa -	85 24 4	9610
Roman Camp -	21 56 40	25692
Dinas Hill - -	72 39 16	
Cefn Bryn P. - -	101 52 47	12297
Dinas Hill - - -	14 42 0	47442
Forest Hall, long Chimney	63 25 13	
Barrow, Green Hill -	97 49 8	17493
Dinas Hill - - -	21 25 53	47429
Forest Hall - -	60 44 59	
Tre Carn Issa - -	30 48 52	17342
Dinas Hill - -	120 44 56	10349
Glenhairn Barn -	28 26 12	
Tre Carn Issa -	20 43 0	22014
Dinas Hill - -	144 39 30	13462
Llandabie Steeple -	14 37 30	
Dinas Hill - -	23 54 34	13509
Glenhairn Barn -	110 11 19	5834
Llandabie Steeple -	45 54 7	
Tre Carn Issa - -	69 56 44	34424
Roman Camp -	68 29 40	34757
Pile on Great Mountain	41 33 36	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Dinas Hill - -	86 4 44	25350
Roman Camp - -	46 33 0	31757
Pile on Great Mountain	47 22 16	
Great Mountain Pile -	19 49 19	51754
Tre Carn Issa -	129 8 45	22643
Cottage near a Plantation	31 1 56	
Carreg Glwydd - -	71 23 0	19889
Tre Carn Issa - -	56 24 45	22627
Cottage - -	52 12 15	
Great Mountain Pile -	25 21 3	45943
Tre Carn Issa -	109 50 52	20911
Trechrig Mountain -	44 49 25	
Dinas Hill - -	64 32 11	7180
Tre Carn Issa -	44 49 33	9196
Carreg Cennen Castle, highest Turret -	70 38 16	
Trechrig Mountain -	25 6 52	16495
Tre Carn Issa - -	48 34 56	9200
Carreg Cennen Castle -	105 18 12	
Great Mountain - -	125 18 55	45451
Dinas Hill - - -	35 41 38	63566
House Highest, and on the South Side of Brechva Mountain - - -	18 59 27	
Great Mountain -	108 1 37	16837
Trechrig Mountain -	17 22 45	53601
Nelson's Tower -	54 35 38	
Great Mountain - -	14 5 41	58725
Trechrig Mountain -	127 36 0	18051
Llangadock Steeple - -	38 18 7	
Trechrig Mountain - -	110 13 15	18075
Nelson's Tower -	15 49 15	62206
Llangadock Steeple -	53 57 15	
Nelson's Tower -	70 59 0	5711
Brechva Mountain -	9 48 0	31721
Dryslwn Castle - - -	99 13 0	
Nelson's Tower -	79 17 52	4268
Dryslwyn Castle -	40 27 0	6464
Llanarthney Steeple -	60 13 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Trechrig Mountain -	4 15 30	54997
Nelson's Tower -	106 56 45	4269
Llanarthney Steeple -	68 47 45	
Nelson's Tower -	49 5 22	6811
Lannon Station -	8 52 18	33377
Centre of Middleton Hall	122 2 20	
Nelson's Tower -	87 15 45	6781
Llanarthney Steeple -	59 47 0	7838
Middleton Hall -	32 57 15	
Nelson's Tower -	21 28 37	11622
Dryslwn Castle -	140 11 3	6645
Belfry of Meeting House at Cross Inn -	18 20 20	
Great Mountain -	7 41 45	39134
Trechrig Mountain -	36 11 50	8874
Carn y Ceggin -	136 6 25	
Llangadock Steeple -	25 54 45	20324
Trechrig Mountain -	91 24 30	8885
Carn y Ceggin -	62 40 45	
Trechrig Mountain -	71 27 30	23875
Great Mountain -	30 33 0	44532
Taliaris Pigeon House	77 59 30	
Carn y Ceggin -	96 15 0	17388
Great Mountain -	22 50 45	44520
Taliaris Pigeon House	60 54 15	
Trechrig Mountain -	46 37 4	23275
Taliaris Pigeon House	64 59 56	18665
Llandilo Steeple -	68 23 0	
Carn y Ceggin -	70 34 30	14733
Taliaris Pigeon House	48 3 0	18682
Llandilo Steeple -	61 22 30	
Carn y Ceggin -	13 2 40	14242
Llandilo Steeple -	75 3 15	3327
Cupola on Tregib House	91 54 5	
Nelson's Tower -	10 47 36	70831
Trechrig Mountain -	140 17 0	20769
Mandinam Hill -	28 55 4	
Trechrig Mountain -	30 3 30	20753
Llangadock Steeple -	89 26 37	10395
Mandinam Hill -	60 29 53	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Trechrig Mountain -	47 52 30	18405
Llangadock Steeple -	67 16 22	14800
East Chimney of a House on Myddvai Mountain	64 51 8	
Llangadock Steeple -	121 15 0	14800
Nelson's Tower -	10 15 45	71020
Chimney of House -	48 29 15	
Garth - -	51 48 10	58078
Ogmoor Down - -	48 49 1	60630
Carn Vawr - -	79 22 59	
Garth - - -	78 32 20	42861
Carn Vawr - -	40 17 2	64969
Stalling Down Signal Staff	61 10 38	
Ogmoor Down -	27 11 37	42219
Garth - - -	26 44 21	42882
Stalling Down Signal Staff	126 4 2	
Ogmoor Down -	87 55 31	26587
Margam Down -	28 46 56	55183
St. Mary, Hill Steeple	63 17 33	
Ogmoor Down -	35 30 30	26557
Stalling Down Signal Staff	36 49 27	25735
St. Mary, Hill Steeple	107 40 3	
Margam Down - -	11 43 37	29019
Ogmoor Down -	15 44 57	21731
Newton Down Signal Staff	152 31 26	
Ogmoor Down -	103 40 22	21743
St. Mary, Hill Steeple	33 40 20	38104
Newton Down Signal Staff	42 39 18	
Margam Down -	100 8 48	8155
Newton Down Signal Staff	14 46 0	31497
Barrow on Margam Down	65 5 12	
Newton Down -	50 17 30	12802
Margam Down -	25 17 37	23051
Kenfig Steeple -	104 24 53	
Margam Down - -	19 26 0	22358
Newton Down - -	35 31 30	12800
Kenfig Steeple -	125 2 30	
Ogmoor Down -	33 23 31	58553
Stalling Down Signal Staff	101 41 32	32908
Llantrisant Steeple -	44 54 57	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
Ogmoor Down -	29 55 38	43012	Ogmoor Down - -	33 15 12	14983
Garth - -	29 5 20	44128	Bridgend Steeple -	67 19 22	8904
St: Hilary Steeple -	120 54 2		Llaleston Steeple -	79 25 26	
Garth - - -	47 21 22	49697	Bridgend Steeple - -	115 4 26	8912
Carn Vawr - -	56 16 0	43958	Carn Vawr - -	9 27 45	49102
St. Mary, Hill Steeple	76 22 38		Llaleston Steeple - -	55 27 49	
Carn Vawr - -	23 46 19	44657	Ogmoor Down -	23 8 0	38174
St Mary, Hill Steeple	80 15 59	18264	Stalling Down Signal Staff	64 37 17	16599
Bridgend Steeple -	75 57 42		Windmill near a round House - -	92 14 43	
Ogmoor Down -	42 19 0	15963			
St. Mary, Hill Steeple	36 2 30	18265	Ogmoor Down - -	52 53 24	38157
Bridgend Steeple -	101 38 30		Carn Vawr - -	38 58 37	48377
			Windmill - -	88 7 59	

ART. XIII. *Triangles for the Survey of Cambridgeshire.* *Plate* XIII.

Maddingly - -	98 49 3	68127	Orwell - -	75 6 40	22326
Balsham - -	43 2 55	98622	Balsham - -	17 29 10	71807
Sutton Steeple - -	38 8 2		Hardwick Spire -	87 24 10	
Maddingly - -	95 17 44	30192	Orwell - -	90 23 56	4025
Balsham - -	25 1 8	71085	Ashwell Spire -	4 22 2	52860
Orwell Pole - -	59 41 8		Orwell Pole -	85 14 2	
Maddingly - -	41 32 32	88680	Royston - -	9 45 25	71870
Balsham - -	107 23 36	47954	Orwell - -	155 52 3	29789
Newmarket - -	31 3 52		Cambridge, St. Mary's	14 22 32	
Orwell - -	91 48 45	4028	Royston - - -	4 56 35	42037
Maddingly - -	7 39 46	30194	Orwell - -	64 3 25	4028
Orwell Pole - -	80 31 29		Orwell Pole -	111 0 0	
Orwell - - -	3 38 5	28645	Royston - -	49 19 0	8135
Maddingly - -	56 20 33	2181	Orwell Pole - -	9 32 9	37249
Coton Spire - -	120 1 22		Royston Steeple -	121 9 0	
Orwell - - -	59 31 6	78735	Royston - -	103 36 40	23661
Maddingly - -	98 30 3	68608	Orwell Pole -	25 47 0	52868
Balsham Steeple -	21 58 51		Ashwell Spire -	50 36 20	
Orwell - -	37 47 56	4024	Royston - -	66 13 0	24663
Balsham - -	1 59 17	71087	Orwell Pole - -	35 7 0	39232
Orwell Pole - -	140 12 47		Guildford Morden -	78 40 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Royston - -	51 16 40	94158
Orwell - -	102 55 40	75371
Balsham Steeple -	25 47 40	
Royston - - -	105 6 0	43882
Orwell Pole -	41 2 0	64535
Gog Magog -	33 52 0	
Royston - -	26 24 0	34776
Orwell Pole - -	54 51 0	18911
Croydon Steeple -	98 45 0	
Orwell Pole - -	19 45 0	39235
Croydon Steeple -	143 39 0	22369
Guildford Morden -	16 36 0	
Maddingly - -	0 9 40	252
Newmarket - -	99 20 20	88721
Newmarket Telegraph	80 30 0	
Maddingly - -	26 9 5	79149
Newmarket - -	63 11 10	39087
Soham Steeple -	90 39 45	
Maddingly - -	16 13 40	86579
Newmarket - -	77 4 50	24824
Fordham Steeple -	86 41 30	
Maddingly - -	45 0 46	63040
Newmarket -	45 18 18	62721
Stretham Spire -	89 40 56	
Newmarket -	65 47 20	90650
Balsham - -	82 34 20	83376
Willingham Spire -	31 38 20	
Newmarket -	86 50 48	62752
Balsham - -	54 36 57	76852
Stretham Spire -	38 32 15	
Maggots Mount -	9 17 18	49781
Balsham - -	111 5 24	8613
Balsham Steeple -	59 37 18	
Newmarket -	18 3 0	62766
Ely Minster - -	63 40 40	21697
Stretham Spire -	98 16 20	
Newmarket -	84 43 0	67430
Ely Minster - -	46 47 0	92133
Gog Magog -	48 30 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Stretham Spire -	82 23 0	26332
Ely Minster - -	55 6 0	31823
Sutton Steeple -	42 31 0	
Stretham Spire -	80 58 0	28152
Sutton Steeple -	51 45 30	35400
Cottenham Steeple -	47 16 30	
Stretham Spire -	103 25 0	33736
Sutton Steeple -	43 51 0	47368
Landbeach Spire -	32 44 0	
Stretham Spire -	22 22 30	16762
Sutton Steeple -	30 30 0	12572
Haddenham Spire -	127 7 30	
Stretham Spire -	35 8 0	47676
Sutton Steeple -	114 48 0	30216
Bluntesham Spire -	30 4 0	
Stretham Spire - -	59 45 0	71594
Newmarket - -	66 39 0	67362
Gog Magog -	53 36 0	
Stretham Spire -	12 33 0	39482
Newmarket - -	19 32 0	25659
Burwell Spire - -	147 55 0	
Stretham Spire -	27 3 0	41378
Newmarket -	96 2 0	31989
Swaffham Steeple -	116 55 0	
Stretham Spire -	41 25 0	49599
Newmarket -	52 7 10	41571
Bottisham Steeple -	86 27 50	
Royston - -	49 56 30	65949
Balsham - -	44 39 50	71807
Hardwick Spire -	85 23 40	
Chatteris - -	98 58 0	32032
Ely Minster -	28 20 0	66663
March Spire -	52 42 0	
Chatteris -	22 41 0	56054
Ely Minster - -	84 48 0	21706
Stretham Spire -	72 31 0	
Chatteris - -	104 28 0	15462
Ely Minster -	14 35 0	59464
Doddington Spire -	60 57 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Sutton Steeple -	14 35 0	42864
Chatteris - -	135 40 0	15444
Doddington Spire -	29 45 0	
Sutton Steeple -	25 36 0	56665
Chatteris - -	130 10 0	32040
March Spire - -	24 14 0	
Sutton Steeple -	59 54 10	30415
Chatteris - -	60 0 50	30380
Somersham Steeple -	60 5 0	
Sutton Steeple -	69 19 0	49820
Chatteris - -	93 5 30	37835
Warboys Spire -	37 35 30	
Sutton Steeple -	94 23 0	6739
Chatteris - -	12 15 0	31672
Witcham Steeple -	73 22 0	
Sutton Steeple -	134 30 0	11095
Chatteris - -	11 42 0	39023
Wentworth - - -	33 48 0	
Chatteris - -	44 36 0	45489
Sutton Steeple -	93 30 0	32000
Downham Spire -	41 54 0	
Stretham Spire -	20 28 0	77844
Chatteris - -	121 48 0	32026
March Spire - -	37 44 0	
Stretham Spire -	32 15 0	16755
Chatteris -	12 3 0	42828
Haddenham Spire -	135 42 0	
Sutton Steeple -	26 1 0	48595
Ely Minster - -	119 4 0	24387
Little Port - -	34 55 0	
Sutton Steeple -	119 8 0	30438
Ely Minster - - -	29 41 0	53685
Chatteris - -	31 11 0	
Stretham Spire -	97 45 0	71336
Balsham - -	39 16 0	111678
Fen Stanton - -	42 59 0	
Stretham Spire -	105 41 0	47769
Balsham - -	27 5 20	100784
Bluntisham Spire -	47 13 40	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Stretham Spire - -	97 45 0	698
Balsham - -	38 44 0	110575
St. Ives Spire - -	43 31 0	
Stretham Spire -	59 46 37	28158
Balsham - -	21 13 6	67226
Cottenham - -	99 0 17	
Stretham Spire -	37 57 0	69851
Cottenham - -	122 5 0	50700
St. Ives Spire - -	19 58 0	
Bottisham Steeple -	32 49 0	22757
Stretham Spire -	22 2 0	32876
Waterbeach -	125 9 0	
Bottisham Steeple -	34 38 0	41597
Stretham Spire - -	56 58 0	28199
Cottenham -	88 24 0	
Bottisham Steeple -	41 10 0	59058
Stretham Spire -	82 28 0	39213
Willingham Spire -	56 22 0	
Cottenham - - -	32 40 40	30921
Balsham -	22 3 30	44453
Chesterton Spire -	125 15 50	
Cottenham - -	127 56 50	46090
Balsham - -	20 49 20	102246
Fen Stanton -	31 13 50	
Cottenham -	132 7 20	31708
Balsham - -	14 53 0	91566
Swavesey Steeple -	32 59 40	
Cottenham - -	105 57 10	20641
Balsham -	15 13 44	75552
Lesy Stanton - -	58 49 6	
Cottenham - -	83 52 40	18997
Balsham - -	16 9 24	67881
Oakingham - -	79 57 56	
Cottenham - -	106 18 30	39156
Balsham - -	25 39 40	86781
Boxworth Spire -	48 1 50	
Cottenham - -	25 49 0	39133
Swavesey Steeple -	101 40 0	17402
Boxworth Spire -	52 31 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Cottenham - -	26° 12′ 0″	20631
Swavesey Steeple -	34 37 0	16035
Long Stanton - -	119 11 0	
Cottenham - -	4 10 30	46363
Swavesey Steeple -	166 51 0	14837
Fen Stanton -	8 58 30	
Bottisham Steeple -	22 25 20	34798
Balsham Station -	109 44 40	14102
Weston Colville -	47 59 0	
Bottisham Steeple -	105 28 40	28478
Balsham Station -	38 6 0	44480
Chesterton Spire -	36 25 20	
Bottisham Steeple -	38 10 20	28755
Balsham - -	74 53 40	18407
Westley Steeple -	66 56 0	
Bottisham Steeple	15 35 0	9361
Balsham - -	7 47 20	18557
Great Wilbraham -	156 37 40	
Bottisham Steeple -	39 11 20	29236
Balsham -	75 36 0	19073
Borough Green -	65 12 40	
Bottisham Steeple	24 12 0	39234
Cottenham - -	70 8 0	17101
Histon Steeple -	85 40 0	
Stretham Spire -	17 9 0	17195
Sutton Steeple -	27 7 0	11124
Wentworth Steeple -	135 44 0	
Stretham Spire -	39 1 0	26833
Sutton Steeple -	72 1 0	17760
Coveney Steeple -	68 58 0	
Stretham Spire -	115 52 0	32917
Sutton Steeple -	36 3 0	50331
Waterbeach -	28 5 0	
Chatteris - -	147 47 0	16319
Haddenham Spire -	8 44 0	57298
Puttock's Bridge -	23 29 0	
Chatteris - -	72 59 0	16295
Doddington - -	55 35 0	18887
Puttock's Bridge -	51 26 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Puttock's Bridge -	136° 21′ 0″	9289
Chatteris - -	15 34 0	23892
Benwick Chapel -	28 5 0	
Chatteris - -	58 12 0	16303
Warboys Spire -	25 21 0	32361
Puttock's Bridge -	96 27 0	
Chatteris - -	28 57 0	35578
Warboys Spire -	68 44 0	18479
Ramsey Steeple -	82 19 0	
Balsham - -	19 31 0	46031
Royston - -	17 3 10	52437
Maggot's Mount -	143 25 50	
Maggot's Mount -	21 35 30	17736
Royston - -	10 17 30	36532
Foulmire Steeple -	148 7 0	
Foulmire Steeple -	20 52 0	14318
Royston - -	12 25 20	23709
Melbourn Steeple -	146 42 40	
Foulmire Steeple -	105 49 0	20526
Royston - -	25 7 0	46526
Chapel Bush -	49 4 0	
Foulmire Steeple -	47 32 0	15643
Royston -	23 57 24	28420
Meldreth Steeple -	108 30 36	
Foulmire Steeple -	40 20 0	7527
Maggots Mount -	22 6 0	12950
Thriplow Steeple -	117 34 0	
Foulmire Steeple -	42 18 0	20505
Maggot's Mount -	79 27 0	14038
Chapel Bush -	58 15 0	
Foulmire Steeple -	51 32 0	23772
Chapel Bush -	72 52 0	19477
Great Shelford Spire -	55 36 0	
Maggot's Mount -	29 45 0	20243
Balsham Steeple -	17 19 20	33736
Gog Magog Telegraph	132 55 40	
Balsham - -	23 26 0	12373
Gog Magog - -	12 27 0	22824
Gunner Hill, Tree -	144 7 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Balsham - -	° ′ ″ 157 58 0	6100
Gog Magog - -	3 20 0	39362
Wratting Mill -	18 42 0	
Balsham - -	119 16 0	19707
Gog Magog -	21 40 0	46564
Brinkley Steeple -	39 4 0	
Gog Magog - -	20 54 0	32004
Gunner Hill, Thorn -	121 47 0	13431
Linton Mill -	37 19 0	
Gog Magog - -	4 6 0	33515
Linton - -	120 44 0	2787
Linton Steeple -	55 10 0	
Balsham - -	25 51 0	12619
Balsham Steeple -	116 30 0	6148
Wratting Mill -	37 39 0	
Balsham - -	160 27 5	19714
Royston - -	3 20 55	112930
Brinkley Steeple -	16 12 0	
Gog Magog -	33 19 0	32004
Balsham Steeple -	68 34 40	18883
Linton Mill -	78 6 20	
Balsham Steeple -	65 27 0	24823
Linton Mill - -	69 13 0	24150
Shudy Camps Steeple	45 20 0	
Balsham Steeple -	67 56 0	6133
Shudy Camps - -	14 10 0	23225
Wratting Mill -	97 54 0	
Balsham Steeple -	70 12 0	12680
Wratting Mill -	81 7 0	12075
Horseheath Mill -	28 41 0	
Balsham Steeple -	39 5 0	10186
Wratting Mill -	105 19 0	6658
West Wickham Steeple	35 36 0	
Orwell Pole - -	121 51 0	22047
Gog Magog - -	18 40 0	58512
Bourne Spire - -	39 29 0	
Stretham Spire -	36 11 0	72588
Gog Magog - -	73 7 0	44784
Hardwick Spire -	70 42 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Gog Magog - -	° ′ ″ 35 3 30	32415
Hardwick Spire -	45 34 30	26072
Chapel Bush - -	99 22 0	
Gog Magog - -	22 31 0	50241
Chapel Bush - -	126 2 0	23792
Caldecot Steeple -	31 27 0	
Gog Magog - -	23 1 0	46553
Chapel Bush - -	119 49 0	20979
Toft Steeple - -	37 10 0	
Hardwick Spire -	88 1 0	13621
Orwell Pole - -	29 53 0	27321
Ash Tree - -	62 6 0	
Orwell Pole -	36 30 0	31052
Hardwick Spire -	92 29 0	18487
Crow Hill Lea -	51 1 0	
Hardwick Spire -	114 43 10	13622
Chapel Bush - -	21 16 50	34093
Ash Tree - -	44 0 0	
Ash Tree - -	62 53 0	8589
Chapel Bush - -	14 13 0	31129
Bourne Spire - -	102 54 0	
Ash Tree - -	118 10 0	11577
Chapel Bush - -	14 28 0	40853
Caxton Steeple -	47 22 0	
Ash Tree - -	90 6 0	5068
Bourne Spire - -	30 31 0	9981
Lea Ash - -	59 23 0	
Ash Tree - -	75 26 0	13560
Lea Ash - -	82 48 0	13228
Long Stow Steeple -	21 46 0	
Fordham Steeple -	67 3 0	22052
Newmarket Telegraph	51 49 30	25884
Burwell Spire -	61 16 30	
Fordham Steeple -	36 49 0	18316
Newmarket Telegraph	47 42 0	14840
Exning Steeple -	95 29 0	
Fordham Steeple -	12 46 0	24824
Newmarket Telegraph	85 25 0	5503
Newmarket Great Church	81 49 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
Sutton Steeple -	47 10 0	68571	Wisbich - -	88 17 0	64282
Little Port - -	87 45 0	50325	Ely Minster - -	32 17 0	120300
Isleham Steeple -	45 5 0		Thorney Abbey -	59 26 0	
Ely Minster - -	53 26 0	103629	Downham - -	69 54 0	56497
Chatteris - -	95 31 30	83627	Wisbich - -	55 44 0	64199
Wisbich - -	31 2 30		Lynn Old Tower -	54 22 0	
Wisbich - -	57 16 0	64245	Downham - -	5 24 0	52636
Chatteris - -	47 52 0	72875	Wisbich - -	57 28 0	5875
Thorney Abbey -	74 52 0		Walsoken -	117 8 0	
Ely Minster -	57 25 0	82477	Chatteris - -	64 56 0	56557
March Spire -	72 15 0	72970	Wisbich - -	40 39 0	78642
Downham - -	50 20 0		Whittlesea - -	74 25 0	
Doddington - -	67 10 0	84730	Chatteris - -	46 19 0	35616
Ely Minster - -	71 12 0	82491	Whittlesea - -	38 52 0	41045
Downham - -	41 38 0		Ramsey Steeple -	94 49 0	
Ely Minster - -	26 14 0	77803	Lynn - - -	105 12 0	19541
Downham - -	69 45 0	36657	Wisbich - -	15 13 0	71844
Upwell Spire - -	84 1 0		Middleton Steeple -	59 35 0	
Ely Minster - -	34 31 0	111362	Lynn - -	40 47 0	10676
Downham - -	98 22 0	63782	Wisbich - -	7 5 0	56550
Leverington Spire -	47 7 0		Clench Wharton -	132 8 0	
Ely Minster - -	32 16 0	103625	Lynn - -	13 43 0	18858
Downham - -	95 19 0	55562	Wisbich - -	5 34 0	46099
Wisbich - -	52 25 0		Tinley St. Lawrence -	160 43 0	
Wisbich - -	17 33 0	104709	Lynn - -	95 13 0	10650
Ely Minster - -	83 9 0	31801	Downham - -	10 27 0	58472
Sutton - -	79 18 0		Clench Wharton -	74 20 0	
Wisbich - -	108 12 0	64206	Lynn - - -	50 47 0	19520
Ely Minster - -	26 15 0	137904	Downham - -	18 53 30	46708
Lynn, Old Tower -	45 33 0		Middleton Steeple -	110 19 30	
Wisbich - -	82 48 0	99156	Lynn - -	68 8 0	18842
Ely Minster - -	47 10 0	134146	Downham - -	19 27 0	52513
Peterborough Cathedral	50 2 0		Tinley St. Lawrence	92 25 0	
Wisbich - -	9 42 0	85069	Lynn - -	54 33 0	58331
Ely Minster - -	35 56 0	24424	Downham - -	64 30 0	52646
Little Port - -	134 22 0		Walsoken -	60 57 0	
Wisbich - -	106 48 0	75507	Whittlesea - -	6 44 0	70598
Ely Minster -	29 57 0	144787	Wisbich -	44 11 0	11877
Crowland Abbey -	43 15 0		Walton Steeple - -	129 5 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
Whittlesea - -	12 2 0	58317	Cottenham - -	12 21 0	66803
Wisbich - -	29 23 0	24779	St. Ives - -	135 32 0	20397
Parson's Drove -	138 35 0		King's Bush -	32 7 0	
Whittlesea - -	68 57 0	46651	St. Ives -	33 42 0	23543
Wisbich - -	35 8 0	75655	King's Bush - -	86 27 0	13088
Crowland Abbey -	75 55 0		Huntingdon Steeple -	59 51 0	
Peterborough -	11 11 0	78628	St. Ives - -	156 19 0	15252
Wisbich - -	34 42 10	26786	King's Bush - -	10 6 30	34905
Whittlesea Spire -	134 6 50		Wheat Sheaf Inn -	13 34 30	
Peterborough -	91 14 0	23991	Wheat Sheaf Inn -	23 58 0	57885
Whittlesea - -	41 18 0	36333	King's Bush - -	127 25 0	29604
Yaxley Spire - -	47 28 0		Eltesley Spire -	28 37 0	
Cottenham - -	87 8 0	66797	Cottenham - -	16 48 0	69222
Sutton - -	64 20 0	74016	King's Bush - -	88 29 0	20014
King's Bush - -	28 32 0		Yelling Spire - -	74 43 0	

ART. XIV. *Secondary Triangles for the Survey of the remaining Part of Berkshire,* together with Part of Bedfordshire and Part of Buckinghamshire.* *Plate* XIV.

The Distances serving as Base Lines for the following Triangles are,

Pen Steeple to Stanmore Station -	75325,4 Feet
Bagshot Heath to Nuffield - -	105321,2
Bagshot Heath to Hind Head - -	92425.9
Quainton to Bow Brickhill - -	67491.4
Lillyhoe to Bow Brickhill - -	69868
Kensworth to Bow Brickhill - -	57668
Kensworth to Wendover - -	67090.7
Brogborough from Bow Brickhill -	22586,7
Kensworth to Stanmore Station -	98577.5
St. Ann's Hill to Hanger Hill Tower	68895.8
St. Ann's Hill to Pen Steeple -	92000.5

Stanmore - -	73 17 18	107464	Wendover - -	59 18 14	193032
Bagshot Heath -	47 10 13	140342	Stanmore - -	86 55 28	166125
Wendover -	59 32 29		Royston - -	33 46 18	
Wendover -	102 22 26	92402	Wendover - -	64 43 46	114355
Stanmore -	35 20 38	156020	Stanmore - -	60 26 30	118884
Bow Brickhill -	42 16 56		Lilleyhoe -	54 49 44	

* See p. 269.

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Pen Steeple -	70 12 0	56120
Stanmore - -	43 9 20	77198
Windsor Castle -	66 38 40	
Pen Steeple - -	12 20 40	79987
Stanmore - -	99 20 20	17330
Harrow Spire -	68 19 0	
Bagshot Heath -	48 47 12	105322
Nuffield - -	71 13 46	83680
Pen Steeple -	59 59 2	
Hind Head - -	18 44 32	180325
Bagshot Heath -	143 30 44	97436
Nettlebed - -	17 44 44	
Bow Brickhill - -	61 13 54	77064
Hanslope - -	75 33 59	69735
Pavenham - -	43 12 7	
Bow Brickhill -	70 16 4	107275
Hanslope - -	79 45 0	102614
Keysoe Spire - -	29 58 56	
Bow Brickhill -	58 19 58	84080
Hanslope - -	81 46 57	72304
Sharnbrook - -	39 53 5	
Bow Brickhill -	40 28 54	77236
Hanslope - -	94 52 48	50324
Cobham's Pillar -	44 38 18	
Quainton - -	75 4 46	58758
Bow Brickhill -	47 19 1	77236
Cobham's Pillar -	57 36 13	
Quainton - -	75 15 34	79188
Bow Brickhill -	49 13 49	62013
Stow Pyramid -	55 30 37	
Lillyhoe - -	15 19 30	118629
Bow Brickhill -	144 51 38	54475
Hanslope Spire -	19 48 52	
Lillyhoe - -	28 29 54	80236
Bow Brickhill - -	90 58 5	38289
Wing Steeple - -	60 32 1	
Lillyhoe - -	35 46 6	87764
Bow Brickhill -	91 30 2	51317
Wingrave Steeple -	52 43 52	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Kensworth - -	4 21 5	41929
Bow Brickhill -	11 20 33	16176
Hill Farm - -	164 18 22	
Hill Farm - -	54 39 42	20862
Kensworth - -	29 4 44	34371
Leighton Spire -	95 39 34	
Kensworth -	59 9 40	18212
Leighton Spire -	31 59 20	29518
Ivinghoe Hill -	88 51 0	
Leighton Spire -	9 58 0	29816
Ivinghoe Hill -	88 22 0	5162
Ivinghoe Spire -	81 40 0	
Leighton Spire -	24 36 30	44328
Ivinghoe Hill - -	119 36 0	21229
Tring Steeple -	35 47 30	
Wendover - -	130 7 54	53027
Kensworth - -	21 49 6	109088
Long Crindon Mill -	28 3 0	
Long Crindon Mill -	3 40 34	51061
Kensworth - -	3 13 26	58217
Bearston Steeple -	173 6 0	
Long Crindon Mill -	112 56 30	17184
Kensworth -	7 47 0	116857
Brill Spire - -	59 16 30	
Hill Farm - -	70 40 16	34281
Bow Brickhill -	81 30 20	32707
Stewkley Steeple -	27 49 24	
Brogborough -	15 7 14	36711
Bow Brickhill -	143 18 40	16023
Bletchley Steeple -	21 34 6	
Brogborough -	11 37 10	30625
Bow Brickhill -	140 13 50	9642
Fenny Stratford -	28 9 0	
Brogborough -	25 53 50	17875
Bow Brickhill - -	50 11 40	10163
Wavendon Steeple -	103 54 30	
Kensworth - -	41 16 0	101059
Stanmore - - -	71 15 30	70387
Berkhampstead Gazebo	67 28 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Kensworth -	23 5 15	60355
Stanmore - -	28 53 40	48981
St. Peter's Steeple, St. Albans - -	128 1 5	
Kensworth - -	72 40 10	18282
Stanmore - -	10 36 50	94752
Crawley Clump -	96 43 0	
St. Ann's Hill -	14 48 30	77205
Hanger Hill Tower -	106 14 0	20551
Harrow Spire -	58 57 30	
St. Ann's Hill -	55 35 6	77207
Pen Steeple - -	52 47 22	79974
Harrow Spire -	71 37 32	
St. Ann's Hill -	70 23 36	68893
Pen Steeple -	43 17 40	94639
Hanger Hill Tower -	66 18 44	
Pen Steeple -	35 0 0	14386
Harrow Spire -	6 54 0	68687
Beaconsfield Spire -	138 6 0	
Harrow Spire -	35 21 30	31260
Beaconsfield -	22 43 30	46888
Hillingdon Steeple -	121 55 0	
Hillingdon Steeple -	110 52 0	5991
Harrow Spire -	9 31 0	33864
Uxbridge Steeple -	59 37 0	
Hillingdon Steeple	106 2 0	18063
Harrow Spire -	25 36 0	40178
Hare and Hounds -	48 22 0	
Hillingdon Steeple -	152 43 0	15715
Harrow Spire -	9 3 0	45798
Iver Heath Direction Post	18 14 0	
Beaconsfield -	72 6 0	14308
Pen Steeple -	53 44 0	16886
Woburn Green, Tree	54 10 0	
Beaconsfield - -	85 10 0	30739
Pen Steeple - -	68 56 10	32823
Cookham Dean, Tree	25 53 50	
Beaconsfield - -	9 2 0	15466
Pen Steeple -	110 5 0	2585
Meeting House, Pen Beacon -	60 53 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Pen Steeple - -	22 44 0	14373
Windsor Flag Staff -	7 23 0	43281
Beaconsfield Spire -	149 53 0	
Beaconsfield - -	64 43 0	30703
Windsor Castle -	42 42 0	40911
Cookham Dean, Tree	72 35 0	
Windsor Castle -	15 0 0	24042
Cookham Dean, Tree	19 20 0	18796
Bray Steeple - -	145 40 0	
Windsor Castle -	19 50 50	37756
Cookham Dean, Tree	66 59 0	13927
Mount Pleasant -	93 10 10	
Windsor Castle -	45 21 0	18790
Cookham Dean, Tree	25 43 0	30805
Farnham Steeple -	108 56 0	
Windsor Castle -	107 35 10	14202
Cookham Dean, Tree	16 40 50	47165
Langley Steeple -	55 44 0	
Cookham Dean, Tree	24 2 0	14238
Bray Steeple - -	45 2 0	8196
Taplow Church Yard, Yew - -	110 56 0	
Cookham Dean, Tree	45 34 0	33552
Bray Steeple -	101 5 0	24416
Fox's Large House -	33 21 0	
Cookham Dean, Tree	46 29 0	35272
Bray Steeple - -	102 7 0	26161
Stoke Spire - -	31 24 0	
Cookham Dean, Tree	86 18 0	22660
Bray Steeple - -	37 50 0	13928
Mount Pleasant -	55 52 0	
Cookham Dean, Tree	45 2 0	30753
Bray Steeple - -	97 44 0	21978
Farnham Steeple -	37 14 0	
Cookham Dean, Tree	102 34 0	17248
Bray Steeple -	36 47 0	28114
Woburn Green, Tree	40 39 0	
Cookham Dean, Tree	75 56 0	9717
Bray Steeple -	29 50 0	18945
Cookham Steeple -	74 14 0	

Names of Stations and intersected objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Woburn Green, Tree	102 12 40	18766
Mount Pleasant -	62 41 0	20648
Marlow Hill, Tree -	15 6 20	
Woburn Green, Tree	83 28 0	10287
Mount Pleasant -	67 1 0	11102
Little Marlow Spire -	29 31 0	
Marlow Hill, Tree -	74 40 0	10301
Woburn Green, Tree -	31 46 0	18869
Great Marlow Spire	73 34 0	
Farnham Steeple -	87 53 0	10868
Bray Steeple -	26 43 0	24156
Herschel's Telescope -	65 24 0	
Farnham Steeple -	20 46 0	10159
Bray Steeple - -	16 6 0	12989
Burnham Steeple -	143 8 0	
Hare and Hounds -	51 19 0	4121
Hillingdon Steeple -	11 44 0	15818
Denham Spire -	116 57 0	
Beaconsfield -	51 41 0	20641
Hillingdon - -	25 27 0	37687
Sir H. Gitt's Monument	102 52 0	
Beaconsfield - -	48 14 30	29018
Cookham Dean, Tree	62 12 30	24637
Hill Farm, Ash, near Wickham - -	69 33 0	
Cookham Dean, Tree	28 43 0	30860
Beaconsfield - -	76 5 0	15276
Meeting House, Pen -	75 12 0	
Cookham Dean, Tree -	89 0 0	29330
Beaconsfield - -	44 8 0	42116
Whitlington Park, Clump	46 52 0	
Mount Pleasant - -	40 44 0	18636
Cookham Dean, Tree	90 55 0	12163
Cupola, Large House, Maidenhead -	48 21 0	
Mount Pleasant -	30 42 0	37557
Bray Steeple - -	116 41 0	21463
Shottesbrook Spire -	32 37 0	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
	° ′ ″	
Woburn Green, Tree	27 19 0	42142
Bray Steeple - -	115 38 0	21449
Shottesbrook Spire -	37 3 0	
Cookham Dean, Tree -	153 45 0	55603
Windsor Castle -	15 9 0	94099
Nettlebed - -	11 6 0	
Nettlebed - -	22 53 0	20690
Cookham Dean, Tree	12 25 0	37417
Clump above Henley -	144 42 0	
Nettlebed - -	27 47 20	48142
Windsor Castle -	23 32 40	56188
Ruscombe Steeple -	128 40 0	
Nettlebed - -	43 27 0	16911
Ruscombe Steeple -	17 58 0	37703
Fawley Steeple .	118 35 0	
Nettlebed - -	5 18 30	36657
Ruscombe Steeple -	16 14 30	12126
Shiplake Steeple -	158 27 0	
Nettlebed - -	16 40 0	20707
Ruscombe Steeple -	11 51 0	28921
Henley Clump -	151 29 0	
Ruscombe Steeple -	22 20 0	8903
Shiplake Steeple -	41 1 0	5155
Walgrave Steeple -	116 39 0	
Ruscombe Steeple -	28 23 0	24347
Shiplake Steeple -	128 46 0	14842
Henley Steeple -	22 51 0	
Nettlebed - -	6 39 0	39283
Shiplake Steeple -	117 26 0	5125
Walgrave Steeple -	55 55 0	
Nettlebed - -	15 10 0	20731
Walgrave Steeple -	15 43 0	20023
Henley Clump -	149 7 0	
Nettlebed - -	41 54 0	28982
Walgrave Steeple -	22 57 0	16922
Fawley Steeple -	115 9 0	
Walgrave Steeple -	82 42 0	9610
Ruscombe Steeple -	51 8 0	12242
Jews Summer House	46 10 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Kensworth - -	13 12 40	117116
Quainton - -	137 18 50	39479
Brill Steeple - -	29 28 30	
Kensworth - -	20 27 3	65341
Quainton - -	43 50 18	32962
Aylesbury Spire -	115 42 39	
Quainton - -	81 56 22	51062
Long Crindon Mill -	42 0 43	34516
Bearston Steeple -	56 2 55	
Long Crindon Mill	2 30 0	43788
Bearston Steeple -	14 38 0	7560
Aylesbury Spire -	162 52 0	
Long Crindon Mill	53 10 0	51505
Aylesbury Spire -	72 39 0	43189
Lousley Row Mill -	54 11 0	
Quainton - -	66 2 55	42779
Aylesbury Spire -	44 45 45	43756
Long Crindon -	69 11 20	
Long Crindon Mill -	26 35 0	51895
Aylesbury Steeple -	96 31 0	23374
Whitchurch Steeple -	56 54 0	
Long Crindon Mill -	101 32 0	35467
Aylesbury Spire -	34 21 0	61588
Hadwell Barrow -	44 7 0	
Long Crindon Mill -	84 55 0	44047
Aylesbury Spire -	47 45 0	59273
Aston Hill, Cot. House	47 20 0	
Whitchurch -	20 43 0	78891
Long Crindon Mill -	128 7 0	35472
Hadwell Barrow -	31 10 0	
Hadwell Barrow -	7 12 0	23924
Long Crindon Mill	14 20 0	12112
Tame Steeple -	158 28 0	
Hadwell Barrow -	73 58 0	42241
Long Crindon Mill -	59 37 0	47062
White Leaf Cross -	46 25 0	
Hadwell Barrow -	15 14 0	37493
Long Crindon Mill -	94 6 0	9877
Chearsley Steeple -	70 40 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Hadwell Barrow - -	118 9 40	14278
Long Crindon Mill -	16 36 20	44048
Aston Hill, Cot. House	45 14 0	
Hadwell Barrow -	78 15 0	36616
Long Crindon Mill -	54 36 0	43013
Risborough Spire -	52 9 0	
Hadwell Barrow -	19 39 0	27340
Long Crindon Mill -	43 24 0	13381
Kingsley Mill -	116 57 0	
Hadwell Barrow - -	66 47 0	42212
Tame Steeple -	79 22 0	39472
White Leaf Cross -	33 51 0	
Aylesbury Spire -	50 56 0	42212
Hadwell Barrow -	24 5 0	39472
Ellesborough Station -	104 59 0	
Ellesborough Hill -	63 13 0	22226
Aylesbury Spire -	51 7 0	25490
White Hill Barrow -	65 40 0	
Ellesborough Hill -	41 24 0	27715
Aylesbury Spire -	74 5 0	19059
Dinton Steeple -	64 31 0	
Ellesborough Hill -	28 24 0	26930
Aylesbury Spire -	79 42 0	13018
Stone Mill - -	71 54 0	
Ellesborough Hill -	26 58 0	39150
Aylesbury Spire -	116 31 0	19841
Canny Hill Tree -	36 31 0	
Ellesborough Hill -	88 26 0	26310
Aylesbury Spire -	10 17 0	4698
Wendover New Station	81 17 0	
Aylesbury Spire -	22 55 0	43341
Wendover New Station	128 53 0	21680
Lousley Row Mill -	28 12 0	
White Hill Barrow -	34 3 0	9264
Ellesborough Barrow	19 36 0	15463
Weston Turville Steeple	126 21 0	
White Hill Barrow -	17 11 0	22847
Aylesbury Spire -	61 31 0	7679
Bearston Spire -	101 18 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
White Hill Barrow -	97 27 0	13598	Winslow Steeple -	130 7 0	15916
Bearston Steeple - -	28 43 0	28063	Buckingham Spire -	16 15 0	43497
Barrow above Wendover	53 50 0		Mursley Steeple - -	33 38 0	
Wendover Barrow -	131 5 0	8729	Winslow Steeple -	62 46 0	15648
Bearston Spire - -	11 1 0	34433	Buckingham Spire -	29 45 0	28039
Jenkins's Farm -	37 54 0		Great Harwood Mill	87 29 0	
Long Crindon Mill -	49 58 0	17695	Great Harwood Mill -	13 53 0	36449
Tame Steeple - -	86 55 0	13568	Winslow Steeple -	156 6 0	21586
Haddenham Steeple -	43 7 0		Oving Steeple -	10 1 0	
Long Crindon Mill	79 46 0	9883	Great Harwood Mill -	64 10 0	19477
Tame Steeple - -	43 12 0	14207	Winslow Steeple -	67 47 0	18937
Chearsley Steeple -	57 2 0		Padbury Steeple -	48 3 0	
Tame Steeple - -	114 36 0	13545	Winslow Steeple -	15 45 0	20632
Hadwall Barrow -	22 37 0	32058	Padbury Steeple -	99 19 0	5674
Haddenham Steeple -	42 47 0		Thornborough Steeple	64 56 0	
Aylesbury Spire - -	5 37 0	19099	Buckingham Spire -	79 50 0	12290
Stone Mill -	162 40 0	6274	Stow Monument -	45 25 0	16984
Dinton Steeple -	11 43 0		Tingewick Spire -	54 45 0	
Hadwall Barrow -	20 31 0	7895	Cookham Dean, Tree	37 13 0	21231
Aston Hill, Cot House	21 54 0	7419	Bray Steeple - -	81 38 0	12979
Aston Steeple -	137 35 0		Burnham Steeple -	61 9 0	
Kensworth - -	59 9 40	17904	Tingewick Spire -	12 38 0	17315
Leighton Spire -	31 23 20	29513	Buckingham Spire -	140 34 30	5963
Ivinghoe Hill - -	89 27 0		Maids Moreton -	26 47 30	
Leighton Spire -	9 58 0	29816	Long Crindon Mill -	3 40 34	109083
Ivinghoe Hill - -	88 22 0	5162	Bearston Spire -	173 6 0	58217
Ivinghoe Spire -	81 40 0		Kensworth - -	3 13 26	
Leighton Spire -	24 36 30	44328	Brill - -	11 32 30	75747.1
Beacon Hill - -	119 36 0	21229	Whitchurch Mill -	143 29 35	25475
Tring Steeple -	35 47 30		Wingrave Steeple -	24 57 55	
Quainton - -	40 3 10	21877	Wingrave Steeple -	25 6 30	43242
Cobham's Obelisk -	18 31 35	44307	Whitchurch Steeple -	126 42 30	22888
Winslow Steeple -	121 25 15		Waddesdon Steeple -	28 11 0	
Winslow Steeple -	9 2 0	31504	Brill - -	113 11 50	32132
Cobham's Obelisk -	20 33 0	14091	Bicester - -	42 49 20	72668
Buckingham Spire -	150 25 0		Whitchurch Steeple -	23 58 50	
Winslow Steeple -	4 52 0	11624	Whitchurch Steeple -	40 46 0	22888
Buckingham Spire -	7 25 0	26188	Bicester - -	15 6 50	57325
Padbury Steeple -	167 43 0		Waddesdon Steeple -	124 7 10	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
Bicester - -	13 29 0	11844	Aylesbury Spire -	30 27 40	23416
Waddesdon Steeple -	3 27 0	45891	Quainton - -	42 53 17	17443
Black Thorn Smoke Mill	163 4 0		Whitchurch Steeple -	106 39 3	
Bicester - -	26 57 0	22548	Quainton - -	78 31 0	21878
Waddesdon Steeple -	15 21 0	38603	Whitchurch Steeple -	58 36 0	25118
Marsh Steeple -	137 42 0		Winslow Steeple -	42 53 0	
Bicester - -	74 16 0	15665			
Waddesdon Steeple -	15 51 30	55178			
Stratton Audley Steeple	89 52 30				

ART. XV. *Altitudes of the Stations.*

For the purpose of obtaining the elevations of the Stations from the level of the sea, when the instrument was used in Anglesea, the height of Llanelian Mountain, above low water-mark, was found, by levelling with the portable transit, to be 582 feet 9 inches. After the measurement of the Base on Rhuddlan Marsh was finished, a similar operation gave 25 feet 5 inches for the height of the Station near Abergele, above the surface of the sea at low water.

The height of the steeple of the New Church at Milford, building in the year 1803, was 37 feet from its base. The ground on which the tower stands is 126 feet above low-water mark. This was found trigonometrically, the large circular instrument being used on the occasion. The top of the part of this steeple then built, from the surface of the sea at low water, was therefore 163 feet.

The depression of the point, denoting low water-mark, near the rocks on Redcar Sands, was carefully observed from the Station at Burleigh Moor, from which, and the computed distance, 553,2 feet, was given for the altitude of that Station.

The height of Beryl Hill, near Poulton, in Lancashire, above low water, was found trigonometrically, by means of two intermediate stations on the coast, with the large instrument, to be 128,5 feet.

The elevation of the Station at Moel Rhyddlad, above the level of the sea, derived from the measured altitude of Llanelian Mountain in Anglesea, is 465,4 feet, and that of Llwydiart Mountain is 523 feet. From these two Stations, as also from Moel Rhyddlad, the highest part of Snowdon was observed. The angles subtended by the top of Snowdon and the horizon, found in the first section, give 3561 feet for the mean height of that mountain. The altitudes, separately deduced, are 3562,2,—3559,5, and 3561,2 feet, allowing for curvature, and the same proportional part of the arcs for refraction.

The height of Garreg Mountain, deduced from Rhuddlan Marsh, is 835 feet, and its depression beneath Snowdon 2740 feet; therefore 3575 feet is the height of Snowdon above the level of the sea by this mode: hence we have a difference of 14 feet between these independent results; and if a mean be taken, we get 3568 feet for the height of that mountain above the level of the sea at low water.

If a series of triangles, extending from any one point on the coast to any other point of it, has, at each extremity, a base of altitude from one common level, accurately measured, in deducing the elevations or depressions of the Stations, each base should be applied to the Stations in its vicinity; and, towards the middle of the series, the altitudes should be computed from each base, and the mean taken for the true results. On this principle the altitudes of the Stations mentioned in this work have, for the most part, been computed.

Dundry Beacon, near Bristol, is 790 feet above the level of the sea according to our former determination. See the Philosophical Transactions for the year 1800, page 715. In computing the altitudes of the Stations made mention of in that volume, the base of altitude at Maker Heights, near Plymouth, was used, and the truth of the process verified, in some degree, by a comparison between the computed altitude of Lugshorn Corner, the eastern extremity of the base line on Sedgemoor, and the height of it as deduced by another method.

The altitudes of the Stations in South Wales, given in this article, are deduced in the following manner:

The height of Milford Church Tower, from the level of the sea at low water, is 163 feet. At the Station near St. Ann's Light House, at the mouth of Milford Haven, the top of Milford Steeple is depressed 40′ 24″ with this angle; and the computed distance between the Tower and the Station, allowing for curvature and refraction, as well as the height of the telescope of the great Theodolite from the ground, the height of the Station, above the level of the sea, appears to be 235 feet.

The Station named Highgate Mountain is 131 feet above the top of Milford Steeple. Its height, above the sea, is therefore 294 feet. The angle used in the computation is 19′ 36″, being the observed depression of Milford Steeple from the Station on Highgate Mountain. From these Stations Highgate Mountain, and St. Ann's Height, proceeding eastward, computing the differences of altitude according to the usual method, we get

The Height of,	As deduced from.	Feet,	Mean Height,
Plumstone Down	St. Ann's Heights	570	573
	Highgate Mountain	577	
Newton Down	Highgate Mountain	322	325
	St. Ann's Heights	328	
	Plumstone Down	316	
Precelly Top	Newton Down	1758	1754
	Highgate Mountain	760	
	Plumstone Down	1744	
Marros Beacon	Newton Down	510	514
	Highgate Mountain	501	
	Precelly Top	551	
Cefn Bryn	Marros Beacon	583	583
Lannon	Marros Beacon	905	912
	Cefn Bryn	918	
Margam Down	Lannon	1097	1099
	Cefn Bryn	1101	
Brenin Fawr	Precelly Top	1285	1285
New Inn Hill	Precelly Top	1181	1179
	Brenin Fawr	1178	
Talsarn	New Inn Hill	1143	1143
Capel Kynon	Talsarn	1026	1033
	New Inn Hill	1046	
Ogmoor Down	Cefn Bryn	292	292
	Margam Down	292	
Trecastle Beacon	Lannon	2596	
Llangeinor Mount.	Trecastle Beacon	1859	
The Garth	Llangeinor Mountain	981	
Mynydd Mane	Llangeinor Mountain	1568	1567
	Garth	1566	
Dundry Beacon	Mynydd Mane	775	

The altitude of Dundry Beacon, as formerly computed, was said to be 790 feet, which differs 15 feet from the above determination.

The Heighth of,	As deduced from,	Feet,	Mean Heighth,
The Cradle Mount.	Mynydd Mane - -	2545	
Trelleg Beacon -	The Cradle Mountain -	1012	1011
	Mynydd Mane - -	1010	
May Hill -	Trelleg Beacon - -	966	
Malvern Hills -	May Hill - -	1444	
Cleve Hill -	May Hill - - -	1134	
Broadway Beacon	Malvern Hill - -	1086	1079
	Cleve Hill - -	1072	

At page 715 of the Philosophical Transactions for the year 1800, it will be seen, that Broadway Beacon is 1086 feet above the level of the sea at low water, a conclusion drawn by applying the base of altitude at Maker Heights, near Plymouth, to the differences of altitude of the Stations between that place and Broadway Beacon. From the above result, 1079 feet appears to be the height of that Station above the surface of the sea at Milford Haven.

This article would be swelled to an unnecessary extent, were the mode pointed out by which the altitude of every Station has been computed. It will be sufficient to state that, in deriving the numbers expressing the heights, the several differences have been mingled together, and the means always taken. The altitudes of Broadway Beacon and Dundry Beacon is just found, compared with the heights as formerly derived, will convey an idea of the degree of accuracy attending this mode of deducing the heights.

The altitudes of the Stations along the boundaries of the triangles, as given in the papers heretofore published, compared with the altitudes of the same Stations, as found on this occasion, give results nearly similar with those derived from the different means of computing the altitudes of Broadway and Dundry Beacon.

The altitudes of most of the remarkable hills in England and Wales being now determined from the Trigonometrical Survey, and the alphabetical mode of arrangement appearing to be the most advantageous for the purpose of reference, it is hoped that the following list may prove acceptable to the public.

An Alphabetical List of the Altitudes of the Stations, and several other remarkable Hills, computed from the Observations made in the course of the Trigonometrical Survey.

A.

	Feet.
Aberystwith, *Cardiganshire*	496
Agnes (St.) Beacon, *Cornwall*	621
Allington Knoll, *Kent*	329
Alnwick Moor, *Northumberland*	808
Ann's (St.) Heights, at the Mouth of Milford Haven, *Pembrokeshire*	235
Ann's (St.) Hill, *Surrey*	240
Arbury Hill, *Northamptonshire*	804
Arran Fowddy, *Merionethshire*	2955
Arrenig, *Merionethshire*	2809
Ash Beacon, *Somersetshire*	655
Ashley Heath, *Staffordshire*	803
Axedge, *Derbyshire*	1751

B.

Bagshot Heath, *Surrey*	463
Banstead, *Surrey*	576
Bar Beacon, *Staffordshire*	653
Bardon Hill, *Leicestershire*	853
Barnaby Moor, *Yorkshire*	784
Beachy Head, *Sussex*	564
Beacons of Brecknock, *Brecknockshire*	2862
Beacon Hill, *Wiltshire*	690
Beeston Castle (Top of), *Cheshire*	556

	Feet.
Belle-field Hill, *Cheshire*	401
Beryl Hill, *Lancashire*	128
Billinge Beacon, *Lancashire*	633
Bindown, *Cornwall*	658
Black Comb, *Cumberland*	1919
Black Down, *Dorsetshire*	817
Black Hambleton Down, *Yorkshire*	1246
Blackheddon, *Northumberland*	646
Bleasdale Forest, *Lancashire*	1709
Bodmin Down, *Cornwall*	645
Boulsworth Hill, *Lancashire*	1689
Bolt Head, *Devonshire*	430
Botley Hill, *Surrey*	880
Botton Head, *Yorkshire*	1485
Bow Brickhill, *Buckinghamshire*	683
Bow Fell, *Cumberland*	2911
Bow Hill, *Sussex*	702
Bradfield Point, *Yorkshire*	1246
Bradley Knoll, *Somersetshire*	973
Brandon Mount, *Durham*	875
Brenin Fawr, *Pembrokeshire*	1285
Brightling Down, *Sussex*	646
Broadway Beacon, *Glocestershire*	1086
Brown Clay Hill, *Shropshire*	1805
Brown Willy, *Cornwall*	1368
Bull Barrow, *Dorsetshire*	927
Burian (St.), *Cornwall*	415
Burleigh Moor, *Yorkshire*	553
Butser Hill, *Hampshire*	917
Butterton Hill, *Devonshire*	1203
Bwlch Mawr, *Caernarvonshire*	1673

C.

	Feet.
Cader Ferwyn, *Merionethshire*	2563
Cader Idris, *Merionethshire*	2914
Cadon Barrow, *Cornwall*	1011
Caermarthen Van, or Trecastle Beacon, *Caermarthen*	2596
Calf Hill, *Westmoreland*	2188
Carn Fell, *Yorkshire*	2245
Capellante, *Brecknockshire*	2394
Capel Kynon, *Cardiganshire*	1046
Carnedd David, *Caernarvonshire*	3427
Carnedd Llewellyn, *Caernarvonshire*	3469
Carraton Hill, *Cornwall*	1208
Castle Ring, *Staffordshire*	715
Cawsand Beacon, *Devonshire*	1792
Cefn Bryn, *Glamorganshire*	583
Chanctonbury Hill, *Sussex*	814
Charton Common, *Dorsetshire*	582
Cheviot, *Northumberland*	2658
Clifton Beacon, *Yorkshire*	417
Cleave Down, *Glocestershire*	1134
Collier Law, *Durham*	1678
Coniston Fell	2577
Corley, *Warwickshire*	521
Cradle Mountain, *Brecknockshire*	2545
Crif Fell, *Scotland*	1831
Cross Fell, *Cumberland*	2901
Crowborough Beacon, *Sussex*	804
Cyrn y Brain Mountain, *Denbighshire*	1857

D.

	Feet.
Danby Beacon, *Yorkshire*	966
Deadman, *Cornwall*	379
Dean Hill, *Hampshire*	539
Delamere Forest, *Cheshire*	596
Dent Hill, *Cumberland*	1115
Ditchling Beacon, *Sussex*	858
Dover Castle, *Kent*	469
Dumpdon Hill, *Dorsetshire*	879
Dundon Beacon, *Somersetshire*	360
Dundry Beacon, *Somersetshire*	1668
Dunnose, *Isle of Wight*	792
Dunrigs, *Scotland*	2408
Dwggan, near Builth, *Brecknockshire*	2071

E.

Easington Heights, *Yorkshire*	681
Elden Hills, near Melrose, *Scotland*	1364
Epwell Hill, *Oxfordshire*	836

F.

Fairlight Down, *Sussex*	599
Farley Down (near Bath), *Glocestershire*	700
Firle Beacon, *Sussex*	820
Folkstone Turnpike, *Kent*	575
Frant Steeple (Top), *Sussex*	659
Furland (near Dartmouth), *Devonshire*	589

G.

	Feet.
Garreg Mountain, *Flintshire*	835
Garth (The), *Glamorganshire*	981
Gerwyn Goch, *Caernarvonshire*	1736
Go Hill, *Lancashire*	304
Goudhurst, *Kent*	497
Grasmere Fell, *Cumberland*	2756
Greenwich Observatory, *Kent*	214
Gringley on the Hill, *Yorkshire*	286
Gwaunysgaer Down, *Denbighshire*	732

H.

Halden (Little), *Devonshire*	818
Hanger Hill (Tower), *Middlesex*	251
Hathersedge, *Derbyshire*	1377
Hawkeston Obelisk (Top of), *Shropshire*	812
Hedgehope, *Northumberland*	2347
Helvellin, *Cumberland*	3055
Hensbarrow Beacon, *Cornwall*	1034
Heswell Hill, *Cheshire*	475
Highbeech, *Essex*	750
Highclere Beacon, *Hampshire*	900
Highgate Down, *Pembrokeshire*	294
High Nook (near Dymchurch), *Kent*	28
High Pike, *Cumberland*	2101
Hind Head, *Surrey*	923
Holland Hill, *Nottinghamshire*	487
Holme Moss, *Derbyshire*	1859
Hollingborn Hill, *Kent*	616

	Feet.
Holy Head Mountain, *Anglesea*	709
Hundred Acres, *Surrey*	443
Hunsley Beacon, *Yorkshire*	591

I.

Ingleborough Hill, *Yorkshire*	2361
Inkpin Beacon, *Hampshire*	1011

K.

Karnbonellis, *Cornwall*	822
Karnminnis, *Cornwall*	805
Kensworth, *Hertfordshire*	904
Kilhope Law	2196
King's Arbour, *Middlesex*	132
Kit Hill, *Cornwall*	1067

L.

Langdon Hill, *Essex*	620
Lansdown, *Somersetshire*	813
Largo Law, *Scotland*	952
Ledstone Beacon, *Yorkshire*	278
Leith Hill, *Surrey*	993
Lilyhoe, *Hertfordshire*	664
Llandinam Mountain, *Montgomeryshire*	1898
Llanelian Mountain, *Anglesea*	582
Llanelian Mountain, *Denbighshire*	1110
Llangeinor Mountain, *Glamorganshire*	1859
Llannon, *Caermarthenshire*	912
Llwydiart Mountain, *Anglesea*	523
Lomond Hill (East), *Scotland*	1466
Lomond Hill (West), *Scotland*	1721

	Feet.
Long Mount Forest, *Shropshire*	1674
Long Mountain, *Montgomeryshire*	1330
Loosehoe, *Yorkshire*	1404
Lords Seat, *Derbyshire*	1751
Lumsdane Hill, *Scotland*	725
M.	
Maker Heights, *Cornwall*	402
Malvern Hill, *Worcestershire*	1444
Marros Beacon, *Caermarthenshire*	514
Margam Down, *Glamorganshire*	1099
May Hill, *Glocestershire*	965
Moel Fammau, *Denbighshire*	1845
Moelfre Issa, *Denbighshire*	1037
Moel Rhyddlad, *Anglesea*	465
Moor Lynch (Windmill), *Somersetshire*	330
Moel Morwith, *Denbighshire*	1767
Mordington Hill, *Scotland*	641
Motteston Down, *Hampshire*	698
Mow Copt, *Cheshire*	1091
Muzzle Hill (near Brill), *Buckinghamshire*	744
N.	
Nettlebed (Windmill), *Oxfordshire*	820
New Inn Hill, *Caermarthenshire*	1168
Newton Down, *Pembrokeshire*	322
Nine Barrow Down, *Dorsetshire*	642
Nine Standards, *Westmoreland*	2136
North Berule, *Isle of Man*	1804
Norwood, *Surrey*	389
Nuffield Common, *Berkshire*	757

O.

	Feet.
Ogmoor Down, *Glamorganshire*	292
Orpit Heights, *Derbyshire*	980

P.

Paddlesworth, *Kent*	642
Pendle Hill, *Lancashire*	1803
Pengarn, *Merionethshire*	1510
Penmaen Mawr, *Caernarvonshire*	1540
Pennigant Hill, *Yorkshire*	2270
Pertinney, *Cornwall*	689
Pillar, *Cumberland*	2893
Pilsdon Hill, *Dorsetshire*	934
Plumstone Down, *Pembrokeshire*	573
Plynlimmon Mountain, *Cardiganshire*	2463
Pontop Pike, *Durham*	1018
Portsdown Hill, *Hampshire*	447
Precelly Top, *Pembrokeshire*	1754

Q.

Queensberry Hill, *Scotland*	2259

R.

Radnor Forest, *Radnorshire*	2163
Rhiw Mountain, *Caernarvonshire*	1013
Rippin Tor (Dartmoor), *Devonshire*	1549
Rivel Mountain, *Caernarvonshire*	1866
Rivington Hill, *Lancashire*	1545
Rodney's Pillar (Base of), *Montgomeryshire*	1199
Rooks Hill, *Sussex*	702

	Feet.
Roseberry Topping, *Yorkshire*	1022
Ruckinge, *Sussex*	37
Rufflaw, *Northumberland*	395
Rumbles Moor, *Yorkshire*	1308

S.

Saddleback, *Cumberland*	2787
Sarum (Old), *Wiltshire*	339
Sayrs Law, *Scotland*	1739
Sca Fell (Low Point), *Cumberland*	3092
Sca Fell (High Point), *Cumberland*	3166
Scilly Bank, *Cumberland*	500
Scutchamfly Beacon, *Berkshire*	853
Sennen, *Cornwall*	387
Sherwood Forest, *Nottinghamshire*	600
Shooters Hill, *Kent*	446
Shotover Hill, *Oxfordshire*	599
Shunnor Fell, *Yorkshire*	2329
Simonside Hill, *Northumberland*	1407
Skiddaw, *Cumberland*	3022
Snea Fell, *Isle of Man*	2004
Snowdon, *Caernarvonshire*	3571
Soutra Hill, *Scotland*	1716
Staincross Heights, *Yorkshire*	514
Stathern Point, *Leicestershire*	490
Stockbridge Hill, *Hampshire*	620
St. Stephen's Down, *Cornwall*	605
Stow Hill, *Herefordshire*	1417
Stow on the Wold, *Glocestershire*	883
Swingfield Steeple (Top), *Kent*	530
Symmonds Hill, *Glocestershire*	795

T.

	Feet.
Talsarn, *Cardiganshire*	1143
Tenterden Steeple, *Kent*	322
Thorney Down, *Somersetshire*	610
Tregarron Down, *Cardiganshire*	1747
Trelleg Beacon, *Monmouthshire*	1011
Trevose Head, *Cornwall*	274

W.

Water Crag, *Yorkshire*	2186
Weaver Hill, *Staffordshire*	1154
Wendover Down, *Buckinghamshire*	905
Westbury Down, *Wiltshire*	775
Whernside (in Ingleton Fells), *Yorkshire*	2384
Whernside (in Kettlewell Dale), *Yorkshire*	2263
Whin Fell, *Scotland*	2241
White Horse Hill, *Berkshire*	893
Whiteham Hill, *Berkshire*	576
Wilton Beacon, *Yorkshire*	809
Wingreen Hill, *Dorsetshire*	941
Wisp Hill, *Scotland*	1940
Wittle Hill, *Lancashire*	1614
Wordeslow Hill, *Durham*	632
Wrekin, *Shropshire*	1320

Y.

Ynaliog Mountain, *Caernarvonshire*	584

SECTION FIFTH.

ART. 1. *Observations made at Delamere Forest to determine the Zenith Distance of β Draconis.*

Point on the Limb 0° 45′ South.

Day of the Month.	Face of the Arch, W. or E.	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer.	
1806		rev. div.	rev. div.	° ′	rev. div.	° ′ ″		Above.	Below.
May 30	W.	9 30,1	8 7,07	0 45	1 23,03	0 46 22,37	29,37	49	50
June 4	W.	15 14,7	13 51,73		21,97	21,10	28,96	48	49
5	E.	6 16,4	7 42,0		25,60	24,74	29,17	51	51
6	W.	10 22,0	9 0,95		21,05	20,18	29,	51,5	53
7	W.	11 46,8	10 25,65		21,15	20,28	29,58	51,5	54,5
9	E.	6 48,3	8 14,53		25,23	24,37	29,67	62	63

Observed Zenith Distance of γ Draconis.

Point on the Limb 1° 40′ South.

May 30	W.	10 14,2	7 49,82	1 40	2 23,38	1 42 21,61	29,37	49,5	50
June 2	E.	4 45,3	7 14,10		27,80	26,04	29,67	51	51,5
4	W.	9 49,1	7 29,0		20,10	18,33	28,96	48	49
5	E.	4 39,4	7 5,0		24,60	22,84	29,17	51,5	51
7	W.	13 6,6	10 44,73		20,87	19,01	29,55	51,5	54,5
9	E.	5 20,9	7 44,68		23,78	22,01	29,67	62	63

Observed Zenith Distance of 45 d Draconis.

Point on the Limb 3° 45′ North.

June 2	E.	2 37,0	7 9,57	3 45	4 31,57	3 40 31,98	29,64	50,5	51,5
4	W.	6 45,6	7 25,7	40	0 39,10	39,16	29,0	47,5	48
7	W.	8 12,6	8 50,48		37,88	37,94	29,56	51	52
9	E.	3 4,5	7 31,22	45	4 26,70	36,84	29,67	62	63

Observed Zenith Distance of 46 c Draconis.

Point on the Limb 2° 10′ North.

June 2	E. E.	4 22,5	7 5,05	2 10	2 41,55	2 7 20,28	29,64	50,5	51,5
4	W. W.	9 50,1	7 13,63		36,47	25,27	29,0	47,0	48
7	W. W.	11 16,8	8 39,61		36,19	25,50	29,56	51	52
9	E. E.	4 36,6	7 11,95		34,35	27,40	29,66	61,5	62,5

Observed Zenith Distance of 51 Draconis.

Point on the Limb 0° 5′ South.

Day of the Month.	Face of the Arch, W. or E.	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.	Zenith Distance reduced.	Barometer.	Thermometer.	
1806		rev. div.	rev. div.	° ′ rev. div.	° ′ ″		Above.	Below.
June 7	W.	15 44,0	13 34,03	0 5 2 9,97	0 7 8,18	29,56	51,5	52,5
9	E.	4 56,5	7 11,03	13,53	11,75	29,66	61	62

Observed Zenith Distance of μ Draconis.

Point on the Limb 1° 30′ North.

June 2	E.	2 39,2	7 20,47	1 35	4 40,27	1 30 23,27	29,67	52,5	52
4	W.	7 32,6	7 57,95	30	0 25,35	25,39	28,97	48	48,5
6	W.	8 14,0	8 39,97		25,97	26,01	29,33	50,5	51,5
7	E.	8 43,5	8 18,82		24,68	24,72	29,68	62	63,5

Observed Zenith Distance of 17 Draconis.

Point on the Limb 0° 10′ North.

May 30	W.	12 32,7	8 15,13	0 10	4 17,57	0 5 46,03	29,37	49,5	51,5
June 4	E.	8 34,6	7 48,95	5	0 44,65	44,72	28,97	48	48,5
6	W.	7 24,2	8 13,52		48,32	48,40	29,33	50,5	51,5

Observed Zenith Distance of 12 ι Draconis.

Point on the Limb 6° 25 North.

May 31	E.	9 12,0	8 44,44	6 25	0 26,56	6 25 26,61	29,44	49	50
June 1	W	7 38,0	8 9,55		30,05	30,60	29,54	50,5	50,5
4	W.	6 46,1	7 21,8		34,79	34,76	29,0	48	48,5
5	E.	8 45,5	8 12,4		33,10	33,15	29,17	54,5	52
6	W.	7 49,4	8 26,3		35,99	35,96	29,33	51	51,5
7	E.	9 39,6	9 9,7		29,90	29,95	29,69	67,5	68,5

Observed Zenith Distance of 58 Draconis.

Point on the Limb 3° 20′ North.

June 2	E.	6 52,6	7 25,05	3 20	0 31,45	3 19 28,50	29,64	50,5	51,5
4	W	7 56,3	6 31,57		24,73	35,23	29,0	46,5	48
7	W.	14 42,0	13 13,48		28,52	31,43	29,58	51	52
9	E.	5 52,6	7 25,33		31,73	31,88	29,66	61	62

Observed Zenith Distance of 1 ϰ Cygni.

Point on the Limb 0° 15′ South.

Day of the Month.	Face of the Arch, W. or E.	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer.	
1806		rev. div.	rev. div.	° ′	rev. div.	° ′ ″		Above.	Below.
June 2	E.	9 26,6	6 52,71	0 15	2 32,89	0 12 28,46	29,63	50	52
4	W.	5 22,1	7 57,71		35,60	26,14	29,0	46,5	48
7	W.	10 53,5	13 29,75		35,25	26,49	29,56	51,5	52,5
9	E.	4 54,9	7 26,2		30,30	31,45	29,66	61	62

Observed Zenith Distance of 10 ι Cygni.

Point on the Limb 1° 55′ South.

June 2	E	4 41,0	8 50,18	1 50	4 10,08	1 54	6,49	29,63	50	52
4	W.	7 31,4	8 28,6	55	0 66,20		3,71	29,0	46,5	48
7	W.	17 57,0	13 51,3	50	4 5,70		2,10	29,56	51,5	52,5
9	E.	7 58,2	7 4,77	55	0 53,43		6,98	29,66	61	62

Observed Zenith Distance of γ Ursæ.

Point on the Limb 1° 30′ North.

May 31	E.	9 24,8	6 20,87	1 30	3 3,93	1 33	1,23	29,45	55	58
June 1	W.	5 2,5	8 12,63		10,13		7,44	29,45	59,5	59,5
6	E.	11 22,8	8 16,42		6,38		3,68	29,26	59	58,5
9	W.	10 26,8	13 36,0		9,20		6,51	29,7	79	73,5

Observed Zenith Distance of η Ursae.

Point on the Limb 2° 55′ South.

May 31	E.	7 13,5	8 28,52	2 55	1 14,98	2 56	14,10	29,44	50,5	50,5
June 1	W	9 21,3	8 13,62		7,68		6,79	29,54	50,5	52,5
2	E.	1 37,1	7 57,66	50	6 20,56		15,19	29,68	52	54
3	W.	8 42,5	7 35,15	55	1 7,35		6,46	29,53	53	53,5
4	W.	14 31,9	8 20,32	50	6 11,58		6,19	28,93	48,5	49,5
6	E.	7 18,1	8 33,38	55	1 15,28		14,34	29,32	53	54,5
7	W.	11 2,9	9 51,33		9,57		8,68	29,58	55	57
9	E.	8 8,0	9 22,95		14,95		14,07	29,69	67	68

Observed Zenith Distance of ζ Ursæ.

Point on the Limb 2° 45′ North.

Day of the Month.	Face of the Arch, W. or E.	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.	Zenith Distance reduced.	Barometer.	Thermometer.	
1806		rev. div.	rev. div.	° ′ rev. div.	° ′ ″		Above.	Below.
May 31	E.	4 24,6	6 22,23	2 45 1 56,63	2 43 4,18	29,44	50	53
June 1	W.	10 5,6	8 15,62	48,98	11,43	29,54	59,5	59,5
2	E.	1 44,7	3 41,05	55,35	5,46	29,68	52	54
3	E.	6 26,0	8 23,45	56,45	4,36	29,53	53	53,5
4	W.	10 11,2	8 20,57	49,63	11,15	28,93	50	50,5
5	W.	9 0,9	7 13,07	46,83	14,00	29,17	51,5	52
6	E.	6 32,2	8 28,35	55,15	5,26	29,32	53	54,5
7	W.	11 44,7	9 53,72	49,98	10,83	29,58	55	57
9	E.	7 10,0	9 4,9	53,90	6,91	29,69	67	68

Observed Zenith Distance of 85 i Herculis.

Point on the Limb 7° 5′ South.

June 4	W.	15 12,8	13 50,74	7 5	1 21,06	7 6	20,19	28,96	48	49
5	E.	5 47,0	7 15,0		27,00		26,14	29,17	51	51
9	E.	6 37,6	8 4,53		25,93		25,07	25,93	62	63

Observed Zenith Distance of υ Herculis.

Point on the Limb 6° 35′ South.

May 30	W.	10 9,0	6 39,48	6 35	3 28,52	6 38	25,86	29,36	49,5	51,5
June 2	E.	4 32,7	8 3,5		29,80		27,14	29,67	49,5	51,5
4	W.	11 4,4	7 35,98		27,42		24,76	29,0	52	54
5	E.	4 23,9	7 54,97		31,07		28,41	29,17	48	48,5
6	W.	11 54,0	8 23,52		24,48		21,88	29,33	51,5	52
7	E.	6 36,4	10 9,38		31,98		29,39	29,58	50,5	51,5
9	E.	5 26,8	8 56,45		29,65		26,99	29,68	62	63,5

Observed Zenith Distance of τ Herculis.

Point on the Limb 6° 25′ South.

May 30	W.	9 11,3	7 44,9	6 25	1 25,40	6 26	24,54	29,36	49,5	51,5
June 4	E.	6 22,8	7 55,22		32,42		31,57	28,97	48,	48,5
6	W.	9 51,4	8 28,05		23,35		22,49	29,33	50,5	50,5

Observations made at Burleigh Moor, to determine the Zenith Distance of β Draconis.

Point on the Limb 2° 5′ South.

Day of the Month.	Face of the Arch, W. or E.	Plumb Line.	Observation of the Star.	Zenith Distance Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer.	
1806		rev. div.	rev. div.	° ′	rev. div.	° ′ ″		Above.	Below.
July 6	W.	14 32,9	12 20,17	2 5	2 12,73	2 7 10,95	29,25	51	51
7	E.	8 13,4	10 29,25		15,85	14,07	28,95	54,5	54,5
9	E.	5 40,5	8 1,93		20,43	18,66	29,55	59	57,5
10	E.	5 58,0	8 12,20		13,20	11,42	29,59	65	62
11	W.	9 56,6	7 49,6		7,00	5,21	29,29	55	56,5
16	W.	9 47,2	7 39,40		7,80	5,29	29,1	51,5	51,5
18	W.	10 24,5	8 18,08		6,42	4,63	29,25	59	56
19	E.	5 47,1	8 3,91		15,81	14,03	29,35	56	56,5

Observed Zenith Distance of γ Draconis.

Point on th Limb 3° 5′ South.

July 6	W.	9 11,5	11 14,9	3 5	2 3,40	3 2 46,40	29,25	51	51
7	E.	11 19,9	10 32,47		1 46,43	3 14,47	28,95	54,5	54,5
10	E.	10 16,0	8 25,8		49,20	11,22	29,59	65	62,5
11	W.	5 47,3	7 43,92		55,62	5,18	29,29	56,5	55
16	W.	5 7,5	7 4,24		55,74	5,07	29,1	51,5	51,5
18	W.	6 1,5	7 55,13		53,63	6,18	29,25	59	56
19	E.	9 36,6	7 46,61		48,99	11,83	29,36	56,5	55

Observed Zenith Distance of 45 d Draconis.

Point on the Limb 2° 20′ North.

July 7	E.	10 34,9	10 51,25	2 20	0 16,55	2 19 43,42	28,95	54,5	54,5
9	E.	7 47,0	8 2,91		14,91	45,07	29,53	57	54
10	E.	8 31,1	8 43,10		12,0	47,98	29,59	65	62
16	W.	7 9,5	7 3,26		6,24	53,75	29,0	50	51

Observed Zenith Distance of 46 c Draconis.

Point on the Limb 0° 45′ North.

July 7	E.	12 34,0	11 2,80	0 45	1 31,20	0 46 30,25	28,95	54,5	54,5
9	E.	9 26,2	7 52,21		32,99	33,14	29,53	57	54
10	E.	9 50,9	8 16,26		34,64	33,79	29,59	64,5	62
11	W.	5 16,1	6 55,57		39,47	39,63	29,25	56,5	56,5
16	W.	5 23,0	7 6,40		42,40	41,57	29,0	50	51

Observed Zenith Distance of 51 Draconis.

Point on the Limb 1° 30′ South.

Day of the Month.	Face of the Arch W. or E.	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.	Zenith Distance reduced.	Barometer.	Thermometer.
1806		rev. div.	rev. div.	° ′ rev. div.	° ′ ″		Above. Below.
July 9	E.	10 0,0	7 58,27	1 30 2 0,73	1 28 1,07	29,53	57 54
10	E.	10 25,0	8 22,50	2,50	0,70	29,59	65 52
11	W.	5 13,0	7 17,55	4,55	27 59,30	29,25	55,5 55
16	W.	4 52,5	7 1,52	8,02	53,77	29,2	51 51,5
19	E.	9 44,4	7 40,50	3,90	57,90	29,36	56 56

Observed Zenith Distance of 17 Draconis.

Point on the Limb 1° 15′ South.

July 4	W.	11 32,5	11 29,9	1 15 0	2,60	1 15	2,61		
6	W.	11 24,5	11 20,59		3,91		3,92	29,25	51,5 51
7	E.	10 15,5	10 23,75		8,25		8,26	28,95	54,5 54,5
9	E.	8 27,8	8 34,73		6,93		6,96	29,52	61 58
10	E.	8 1,0	8 8,35		7,35		7,36	29,32	66,5 66,5
11	W.	8 20,6	8 20,48		0,12		0,12	29,29	59 56
12	E.	7 50,1	7 56,22		6,12		6,13	29,38	60 59
16	W.	7 33,1	7 35,57		2,47		2,47	29,0	54 54

Observed Zenith Distance of 12 1 Draconis.

Point on the Limb 5° 5′ North.

July 9	E.	8 27,5	8 51,0	5 5 0	23,50	5 4	36,46	29,52	61 58
10	E.	8 51,5	9 2,8		10,30		49,68	29,32	66,5 66,5
16	W.	7 29,6	7 12,45		16,15		43,82	29,35	56 56,5

Observed Zenith Distance of 53 Draconis.

Point on the Limb 2° 0′ North.

July 7	E.	13 35,4	10 51,73	1 55	+2 42,67	1 57	40,93	28,95	54,5 54,5
9	E.	5 58,9	8 26,45	2 0	−2 26,55		35,21	29,53	57 54
10	E.	6 28,2	8 47,11		18,91		42,86	29,59	65 62
11	W.	9 36,5	7 19,0		17,50		42,27	29,25	55,5 55
16	W.	9 9,0	6 54,47		13,53		48,25	29,2	51 51

Observed Zenith Distance of μ Draconis.

Point on the Limb 0° 10′ North.

Day of the Month.	Face of the Arch. W. or E.	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer.	
1806		rev. div.	rev. div.	° ′	rev. div.	° ′ ″		Above.	Below.
July 7	E.	13 55,5	9 20,72	0 5	4 34,78	0 9 30,23	28,95	54,5	54,5
9	E.	7 57,5	8 27,22		28,72	29,31	29,52	61,5	58
10	E.	7 48,9	8 17,87		27,97	31,98	29,59	64,5	62
11	W.	8 26,4	8 5,53		20,87	39,10	29,29	59	56
16	W.	7 32,5	7 12,75		19,75	40,22	29,1	52	52

Observed Zenith Distance of 1 ϰ Cygni.

Point on the Limb 1° 35′ South.

July 9	E.	10 16,8	8 34,17	1 35	1 41,63	1 33 19,20	29,53	57	54,5
10	E.	10 39,4	8 57,13		41,27	18,56	29,59	65	62,5
11	W.	6 7,5	7 53,20		45,70	15,13	29,25	55,5	55
16	W.	5 22,4	7 13,0		49,60	11,32	29,20	51	51

Observed Zenith Distance of 10 ι Cygni.

Point on the Limb 3° 15′ South.

July 6	W.	10 25,8	10 33,83	3 15	0 8,03	3 14 51,96	29,26	49,5	49,5
9	E.	8 22,4	8 18,50		3,90	56,09	29,53	57	54
10	E.	9 28,3	9 21,41		6,89	53,10	29,59	65	62
11	W.	7 40,2	7 48,50		8,30	51,70	29,25	55,5	55,5
16	W.	6 49,4	7 3,43		13,03	46,94	29,20	51	51

Observed Zenith Distance of α Persei.

Point on the Limb 5° 25′ South.

July 14	W.	7 31,5	7 49,13	5 25	0 17,63	5 24 42,34	29,0	65	62
15	W.	6 53,0	7 12,55		18,55	41,42	29,20	64	60
19	E.	6 24,6	6 9,55		15,05	44,92	29,31	64,5	62,5

Observed Zenith Distance of 27 γ Cassiopeia.

Point on the Limb 5° 5′ North.

Day of the Month.	Face of the Arch. W. or E.	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.		Zenith Distance reduced.		Barometer.	Thermometer.	
1806		rev. div.	rev. div.	° ′	rev. div.	° ′ ″			Above.	Below.
July 15	W.	6 39,8	7 9,3	5 5	3 28,50	0 5 28,50		29,16	58	55
17	W.	7 38,8	7 11,48		23,32	27,36		29,04	53	53,5
19	W.	5 10,1	5 44,77		34,67	34,73		29,86	54	55,5

Observed Zenith Distance of 24 η Cassiopeia.

Point on the Limb 2° 15′ North.

July 15	W.	9 42,3	7 24,43	2 15	2 17,87	2 12 43,90	29,16	58	55
17	W.	5 16,0	7 33,91		17,90	43,86	29,06	53	53,5
19	W.	8 27,4	6 5,17		22,83	39,45	29,26	54	55,5

ART. II. *Reduction of the Observations made on certain Stars at Delamere Forest, in Cheshire, and Burleigh Moor, near the Tees Mouth, in Yorkshire, from the respective Days on which they were made, to the first of January 1806; the Equations being those for Aberration, Nutation, semi-annual solar Equation, Precession, and Refraction, with the Zenith Distances of the Stars deduced therefrom.*

Reduction of the Observations made at Delamere Forest.

γ Draconis, South.

Face of the Limb West.		Face of the Limb East.	
May 30	1° 2′ 14,″75	June 2	1° 42′ 20″,07
June 4	13,08	5	17,79
7	14,60	9	18,25
Mean	1 42 14,14	Mean	1 42 18,70

Zenith dist. 1° 42′ 16″,42 (refr. &c.) 1° 42′ 18″,07
+1,672 Mean refr.
—0,034 Temperature.
+0,031 Expansion of axis.

1 42 18,09

β Draconis, South.

May 30	0° 46′ 15″,84	June 5	0° 46′ 20″,09
4	16,17	9	21,02
6	15,89		
7	16,30		
Mean	0 46 16,05	Mean	0 46 20,55

Zenith dist. 0° 46′ 18″,3 (refr. &c.) 0° 46′ 19″,036.

45 *d Draconis, North.*

June 4	3° 40′ 44″,28	June 2	3° 40′ 38″,72
7	41,36	9	39,27
Mean	3 40 42,82	Mean	3 40 38,99

Zenith dist. 3° 40′ 40″,9 (refr. &c.) 3° 40′ 44″,78.

46 *c Draconis, North.*

June 4	2° 7′ 30″,78	June 2	2° 7′ 26″,10
7	29,46	9	30,74
Mean	2 7 30,12	Mean	2 7 28,42

Zenith dist. 2° 7′ 29″,27 (refr. &c.) 2° 7′ 31″,34.

51 *Draconis, South.*

June 7—0° 7′ 4″,33 June 9—0° 7′ 8″,56 Zenith dist. 0° 7′ 6″,4 (refr. &c.) 0° 7′ 6″,48.

μ Draconis North.

Face of the Limb West.			Face of the Limb East.			
June 4	1° 30′	23″,70	June 2	1° 30′	22″,30	Zenith dist. 1° 30′ 22″,83 (refr. &c.) 1° 30′ 24″,29.
6		23,75	9		21,60	
Mean	1 30	23,72	Mean	1 30	21,95	

17 *Draconis, North.*

May 30	0° 5′	52″,32	June 4	0° 5	49″,56	Zenith dist. 0° 5′ 50″,98 (refr. &c.) 0° 5′ 51″,08.
6		52,49				
Mean	0 5	52,40				

1 *κ Cygni, South.*

June 4	0° 12′	21″,62	June 2	0° 12′	23″,38	Zenith dist. 0° 12′ 24″,32 (refr. &c) 0° 12′ 24″,51.
7		23,79	9		28,53	
Mean	0 12	22,7	Mean	0 12	25,95	

10 *ι Cygni, North.*

June 4	1° 53′	59″,12	June 2	1° 54′	1″,16	Zenith dist. 1° 54′ 0″,55 (refr. &c.) 1° 54′ 2″,216.
7		58,17	9		3,95	
Mean	1 53	58,64	Mean	1 54	2,56	

γ Ursæ, North.

June 1	1° 33′	8″,25	May 31	1° 33′	2″,18	Zenith dist. 1° 33′ 5″,42 (refr. &c.) 1° 33′ 6″ 93.
9		6,99	6		4,28	
Mean	1 33	7,62	Mean	1 33	3,23	

79 *ζ Ursæ, North.*

June 1	2° 43′	13″,63	May 31	2° 43′	6″,76	Zenith dist. 2° 43′ 10″,51 (refr. &c.) 2° 43′ 13″34.
4		13,18	June 2		7,83	
5		15,91	4		6,52	
7		12,35	6		6,98	
			9		8,21	
Mean	2 43	13,77	Mean	2 43	7,25	

η Ursæ, South.

June 1	2° 56′	2″,85	May 31	2° 56′	9″,24	Zenith dist. 2° 56′ 7″,13 (refr. &c.) 2° 56′ 9″,96.
3		2,72	June 2		11,33	
4		2,71	6		11,24	
7		5,78	9		11,23	
Mean	2 56	3,51	Mean	2 56	10,76	

85 *ι Herculis.*

June 4	7° 6′	15″,58	June 5	7° 6′	23″,09	Zenith dist. 7° 6′ 19″,03 (refr. &c) 7° 6′ 25″.89.
			9		21,90	
			Mean	7 6	22,49	

υ *Herculis, South.*

Face of the Limb West.				Face of the Limb East.				
May 30	6°	38′	16″,75	June 2	6°	38′	19″,01	Zenith dist. 6° 38′ 18″,74 (refr. &c.) 6° 38′ 25″,14.
June 4			17,46	5			21,36	
6			15,03	7			22,95	
				9			21,05	
Mean	6	38	16,41	Mean	6	38	21,09	

22 τ *Herculis.*

May 30	6°	26′	18″,35	June 4	6°	26′	26″,84.	Zenith dist. 6° 26′ 22,″56 (refr. &c.) 6° 26′ 28″,78.
			18,23					
Mean	6	26	18,29					

Reduction of the Observations made at Burleigh Moor.

γ *Draconis.*

July 11	3°	3′	11″,71	July 7	3°	3′	19″,83	Zenith dist. 3° 3′ 16″,03 (refr. &c.) 3° 3′ 19″,09.
16			12,99	10			17,13	
18			14,74	19			19,82	
Mean 3		3	13,15	Mean 3		3	18,92	

β *Draconis.*

July 6	2°	7′	16″,14	July 7	2°	7′	19″,55	Zenith dist. 2° 7′ 17″37 (refr. &c.) 2° 7′ 18″,5.
11			11,79	9			24,69	
16			13,17	10			17,20	
18			13,04	19			22,08	
Mean 2		7	13,71	Mean 2		7	20,88	

45 *d Draconis.*

July 16	2°	19′	44″,78	July 7	2°	19′	37″,45	Zenith dist. 2° 19′ 41″,71 (refr. &c.) 2° 19′43″,96.
				9			38,47	
				10			40,03	
				Mean 2		19	38,65	

46 *c Draconis.*

July 11	0°	46′	32″,20	July 7	0°	46′	24,22	Zenith dist. 0° 46′ 28″,9 (refr. &c.) 0° 46′ 29″,69.
16			32,44	9			25,45	
				10			26,78	
Mean 0		46	32,32	Mean 0		46	25,48	

51 *Draconis, South.*

July 11	1°	28′	4″,881	July 9	1°	28′	7″,83	Zenith dist. 1° 28′ 5″,80 (refr. &c.) 1° 28′ 7″,15.
16			3,12	10			7,83	
				19			7,17	
Mean 1		28	4,00	Mean 1		28	7,61	

17 *Draconis, South.*

Face of the Limb West.				Face of the Limb East.				
July	4—1°	15′	6″,24	July	7—1°	15′	12″,91	Zenith dist. 1° 15′ 9″,79 (refr. &c.) 1° 15′ 11″,04.
	6		7,33		9		12,08	
	11		5,79		10		12,79	
	16		9,24		12		11,96	
	Mean 1	15	7,15		Mean 1	15	12,44	

28 *μ Draconis.*

July	11—0°	9′	29″,31		0°	9	21,89	Zenith dist. 0° 9′ 25″,53 (refr. &c.) 0° 9′ 25″,48.
	16		28,66				21,47	
	Mean 0	9	28,98		Mean 0	9	21,68	

1 *κ Cygni.*

July	11—1°	33	26″,52	July	9—1°	33′	26,50	Zenith dist. 1° 33 24,31 (refr. &c.) 1° 33′ 25″,87.
	16		21,05		10		26,21	
	Mean 1	33	22,28		Mean 1	33	26,36	

ART III. *Amplitudes of the Celestial Arc comprehended by the Stations on Dunnose and Burleigh Moor, near the Mouth of the Tees.*

THE several observations in the preceding article, are reduced to the first day of January, 1806: Those made on Dunnose in 1802, are reduced to the beginning of the same year, and must be brought up to the same period. For the Zenith Distances of those Stars at that Station, see the Account of the Measurement of an Arc of the Meridian, p. 90.

β	Draconis	-	1 49 53,38	North from the Zenith.
γ	———	-	0 53 53,83	N.
45 *d.*	———	-	6 16 58,18	N.
46 *c.*	———	-	4 43 42,44	N.

51	Draconis	-	2° 29′ 4,″69 N.
17	———	-	2 42 3,18 N.
μ	———	-	4 6 38,97 N.
1	$\varkappa$ Cygni	-	2 23 47,81 N.
10	ι ———	-	0 42 9,64 N.

At Burleigh Moor the Zenith distances of the same stars for the same period are

β	Draconis	-	2° 7′ 18″,51 South.
γ	———	-	3 3 19,09 S.
45 *d.*	———	-	2 19 43,96 North.
46 *c.*	———	-	0 46 29,69 N.
51	———	-	1 28 7,15 S.
17	———	-	1 15 11,04 S.
μ	———	-	0 9 25,48 N.
1	$\varkappa$ Cygni	-	1 33 25,87 S.

The amplitudes of the arc resulting from these determinations are as follow: viz.

By β	Draconis	-	3° 57′ 11″,89
γ	———	-	12,92
45 *d.*	———	-	14,22
46 *c.*	———	-	12,75
51	———	-	11,84
17	———	-	14,22
μ	———	-	13,49
1	$\varkappa$ Cygni	-	13,68

The mean of which gives 3° 57′ 13″,1, being the difference of latitude between the parallels of Dunnose and Burleigh Moor.

ART. IV. *Amplitudes of the Celestial Arc comprehended by the Stations Dunnose and Delamere Forest.*

At Delamere Forest, the Zenith Distances of certain principal Stars are as follows: viz.

		°	′	″	
γ Draconis	-	1	42	18,07	South.
β ———	-	0	46	19,04	S.
45 *d.* ———	-	3	40	44,78	North.
46 *c.* ———	-	2	7	31,34	N.
51 ———	-	0	7	6,48	S.
17 ———	-	0	5	51,08	N.
1 $\varkappa$ Cygni	-	0	12	25,51	S.
10 ι ———	-	1	54	2,22	S.

These Zenith distances, respectively applied to the Zenith distances of the same stars observed at Dunnose, give the several amplitudes as follow:

		°	′	″
By β Draconis	-	2	36	12,42
γ ———	-			11,9
45 *d.* ———	-			13,4
46 *c.* ———	-			11,1
51 ———	-			11,17
17 ———	-			12,1
1 $\varkappa$ Cygni	-			13,32
10 ι ———	-			11,86

The mean of which gives 2° 36′ 12″,2 being the difference in latitude between Dunnose and the Station on Delamere Forest.

ART. V. *Calculation of the Meridional Distance between Dunnose and Burleigh Moor.*

At Burleigh Moor, on the 28th of June, in the evening, the pole star, when at its greatest apparent western elongation from the meridian, was observed, and the angle taken between it and the staff at Redcar Sands. This angle was found to be 4° 32′ 17″.

In like manner, when the star, on the morning of the 29th, was observed when at its greatest apparent eastern elongation from the meridian, the angle between the star and staff was found to be 10° 30′ 14″, the mean of the two results, gives 7° 31′ 15″5 for the true bearing of the staff from the meridian of Burleigh Moor.

The angle between the station on Easington Heights, and the staff at Redcar, was found to be 100° 31′ 37″,5, subtracting from this angle the bearing of the staff from the meridian, we get 86° 59′ 38″ for the angle between Easington Station and the meridian of Burleigh Moor in a South direction.

The bearings of the sides of the Triangles, used in finding the meridional distance from Burleigh Moor to Dunnose, from the several parallels to the meridian of Burleigh Moor, will be as follow:

	°	′	″	
Botton Head from Burleigh Moor -	9	7	2	SW.
Hemingbrough Spire from Botton Head	5	35	4,5	SE.
Clifton Beacon from Hemingbrough Spire	24	50	42	SW.
Hathersage from Clifton Beacon -	62	0	3	SW.
Orpit from Hathersage -	5	18	6	SE.
Bardon Hill from Orpit - -	21	13	23	SE.
Arbury Hill from Bardon Hill -	7	35	11	SE.

	°	′	″	
Brill from Arbury Hill - -	12	22	34	S. E.
Whitehorse Hill from Brill - -	50	24	0	S. W.
Highclere from Whitehorse Hill -	27	39	53,5	S. E.
Butser Hill from Highclere - -	34	12	30,5	S. E.
Dunnose from Butser Hill - -	21	6	26	S. W.

These bearings give the distances from the meridian of and perpendicular at Burleigh Moor as follows:

	Feet.		Feet.	
Botton Head from the meridian	9658,8	W.	60186,4	from the
Hemingbrough Spire -	13145	E.	293404,2	perpen.
Clifton Beacon -	39203,2	W.	406462,9	
Hathersage -	120635,6	W.	449759,8	
Orpit - -	111242,2	W.	550982,9	
Bardon Hill -	62048,2	W.	677661,5	
Arbury Hill -	38228,2	W.	856508,2	
Brill - -	6822,8	W.	999633,1	
Whitehorse Hill - -	119782,4	W.	1093081,4	
Highclere - -	69376,7	W.	1189233,3	
Butser Hill - -	13847	E.	1311654,3	
Dunnose - -	36778	W.	1442802,9	

In the account of the measurement of an arc of the meridian, page 55, the distance of Clifton Beacon (Beacon Hill) from the perpendicular to the meridian of Dunnose, is shewn to be 1036334,4 feet, and its distance from the same meridian, is stated in the following page as being 4770 feet. If the calculation there specified, be carried on from Clifton Beacon to Burleigh Moor, through the same triangles as used in determining the distance from Burleigh Moor to the point, where a line from

Dunnose parallel to the perpendicular, cuts the meridian of that station, we shall have the following bearings for computation, viz.

	°	′	″	
Clifton Beacon from Hathersage	61	52	17	N. E.
Hemingbrough Spire from Clifton Beacon	24	42	56	N. E.
Botton Head from Hemingbrough Spire	5	42	50,5	N. W.
Burleigh Moor from Botton Head -	8	59	15	N. E.

Assuming the distance of Clifton Beacon from the meridian of Dunnose as above mentioned, to be 4770 feet, and from the perpendicular at that station as 1036334,4 feet, we shall get

Hemingbrough Spire from the Meridian	47322,7	E.	1149511,1 from the perpendicular.
Botton Head - - -	23992,3	E.	1382676,6
And Burleigh Moor - -	33514,8	E.	1442884,7

Now the latitude of Dunnose is $\frac{7}{17}''$ greater than the latitude of the point, where the parallel from that station, cuts the meridian of Burleigh Moor, $\frac{7}{17}''$ of a second in the heavens, corresponds to 42 feet on the surface of the earth; hence 1442802,9+42=1442845 feet may be taken for the distance between the parallels of Burleigh Moor and Dunnose, as derived from the first mode of calculation.

In like manner, the latitude of Burleigh Moor being $\frac{11}{30}''$ less than the latitude of the point, where a line from that station parallel to the perpendicular at Dunnose, cuts its meridian, we shall have 1442884,7—37,4=1442847,3 feet, for the distance between the parallels, as determined by carrying up the calculations with the direction of the meridian observed at Dunnose. See the 1st volume, page 291.—These results differ something more than two feet, and, at a mean, may be taken as 1442846 feet, to which adding 6,5 (the distance of the station from the point where the sector was set up at Dunnose), we get 1442852,5 feet for the true meridional distance.

In the account of the measurement of an arc of the meridian, the difference of latitude between the parallels of Dunnose and Clifton in Yorkshire, is shewn to be 2° 50′ 23″,38 (see page 104 of that Account), the terrestrial subtence of the arc being 1036337 feet. See page 107 of the same Account.

If the former operation, as well as the present one, be supposed correct, their results must be consistent, unless we suppose the plumb line of the sector at Burleigh Moor, to have been affected by attraction, arising from the earth's unequal density, in a greater or less degree than at Clifton Beacon.

Setting aside the consideration of elliptical arches not being proportionate to the angles formed by the meeting of the verticals, or intersections of the radii of curvatures at their extremities, yet in the present case, the total arch not exceeding two degrees, we may use a statement of simple proportion. Taking therefore the terrestrial arc between Dunnose and Clifton as 1036337, and its subtence in the Heavens as 2° 50′ 23″ 38; and also the total meridional distance between the parallels of Dunnose and Burleigh Moor as 1442852,5 feet, we shall have

1036337 feet : 2° 50′ 23″,38 (10223,″38) : : 1442852,5 feet : 14233″,6 = 3° 57′ 13″,6

the subtence of that arc, or the difference of latitude between those parallels. But this arc has been found by observation to be 3° 57′ 13″, 1, almost exactly the same as the computed result.

The length of the degree on the meridian at the middle point between Dunnose and Burleigh Moor, of which the latitude is 52° 35′ 45″, is 60823,8 fathoms. In the account of the former measurement (p. 108), the length of the degree in 52° 2′ 19″,8 is stated to be 60820 fathoms which is nearly the same. Were the earth an ellipsoid, the diameter of its polar and equatorial axes in the ratio of 229 to 230, the degree in 52° 34′ should be

nearly 60830 fathoms, if the length of that in 52° 2′ be taken 60820.

ART. VI. *Computation of the Distance between the Parallels of Latitude of Dunnose in the Isle of Wight, and Delamere Forest.*

When the great circular instrument was placed over the point at Delamere Forest, the direction of the meridian was observed. The bearing of the staff at Kelsall from the north meridian was found, as may be seen from the observations made at that station, to be 138° 1′ 7″. The angle between Ashley Heath and the same staff was also taken and seen to be 73° 24′ 31″,5; these two angles give 31° 25′ 38″,5 for the south-east bearing of Ashley Heath from the meridian of Delamere Forest. This bearing carried through the series of triangles connecting Delamere Forest with Black Down, a principal station in Dorsetshire, gives the bearings of the following sides from that meridian, viz.

	°	′	″	
Ashley Heath from Delamere Forest -	31	25	38,5	S. E.
Brown Clay Hill from Ashley Heath -	16	38	10	S. W.
Malvern Hills from Brown Clay Hill -	23	25	12	S E.
Trelleg Beacon from Malvern Hills -	32	14	58,5	S. W.
Dundry Beacon from Trelleg Beacon -	6	37	9,75	S. E.
Mendip Hills from Dundry Beacon -	19	4	46	S. E.
Ash Beacon from Mendip Hills -	3	28	51,75	S. E.
Mintern from Ash Beacon - -	5	22	58	S. E.
Black Down from Mintern - -	10	30	53,5	S. W.

These Bearings with their respective sides give

Ashley Heath from the meridian	67472,1	E.	110418,2 from the
Brown Clay Hill -	19203,2	E.	279161 perpen.
Malvern Hills - - -	77902,2	E.	407476,5

Trelleg Beacon - -	5975,3 W.	588989,9
Dundry Beacon - -	9628,2 E.	665692,9
Mendip Hill - -	32246,2 E.	731085,9
Ash Beacon - -	36896,2 E.	807525,7
Mintern - -	42446,6 E.	866481,5
Black Down - -	31546,3 E.	925158,5

The parallel of Black Down cuts the meridian of Delamere Forest 30 feet farther to the southward than the parallel to the perpendicular, therefore 925158 + 30 = 925188,5 feet, is the corrected distance between the parallels of latitude of the two stations.

The bearings of Mintern, Ash Beacon, Mendip, and Dundry Beacon from the parallels to the meridian and perpendicular at Blackdown, are given in the second volume, page 115. If the calculation be carried on from the side, Dundry Beacon and Mendip, through the same series of triangles as before used, we shall have

	°	′	″	
Trelleg Beacon from Dundry Beacon -	6	31	26	N. W.
Malvern Hills from Trelleg Beacon -	32	20	43	N. E.
Brown Clay Hill from Malvern Hill -	23	19	27	N. W.
Ashley Heath from Brown Clay Hill -	16	43	55	N. E.
Delamere Forest from Ashley Heath -	31	19	58	N. W.

These bearings, with their respective sides, and the distance from Dundry Beacon to the meridian and perpendicular, viz. 21488 feet W. and 259503 feet, give

	Feet.		Feet.	
Trelleg Beacon from the meridian	35980,2	W.	386230,2	from the perpendicular.
Malvern Hills - -	47221,4	E.	517612,2	
Brown Clay Hill - -	11250,8	W.	653225,7	
Ashley Heath - -	37288,9	E.	814689,7	
Delamere Forest -	30000,7	W.	925214,7	

From the meridional distance thus found (925214,7 feet)

thirty-four feet must be subtracted, the perpendicular at Dunnose, cutting the meridian 34 feet north of the parallel of Delamere Forest. Therefore 925214,7—34=925180,7 feet is the corrected distance. By calculating with the bearings, from Delamere Forest downwards, the distance has been found to be 925188,5 feet, giving a difference of 8 feet nearly between the two results; the mean 925184,6 feet, may be taken for the true meridian distance between the two stations.

The distance between the parallels of Blackdown and Dunnose is accurately 25005,3 feet. Therefore 925184,6+25005,3= 950189,9 feet is the true distance between the parallels of Black Down and Delamere Forest.

Now we have portions of two meridians, proceeding from the same Southern parallel; and running up, one the extent of 3° 57′ 13″,1, and the other of 2° 36′ 12″,2. If the surface of the earth in the seat of our operations be uniform in its meridional figure, the subtence of the arch between Dunnose and Delamere Forest should be nearly in the ratio of their amplitudes. This being the case, we shall have 1442852,5 feet (the meridional distance between Dunnose and Burleigh Moor): 3° 57′ 13″,1, its amplitude :: 950189,9 feet (the meridional distance between Dunnose and Delamere Forest: 2° 36′ 13″,2, the amplitude of its arc. From the observations made at the station in Delamere Forest, with the Zenith sector in 1806, combined with those at Dunnose in 1802, with the same instrument, it is found that the difference in latitude of those is 2° 36′ 12″,2, making a difference of 1″, between the calculated and observed amplitudes, constituting a difference, setting aside the consideration of a spheroidical figure of the earth of $\frac{4}{10}$ths of a second in one degree.—Perhaps, under the consideration of each meridional line being obtained independently of the other, and admitting that neither

of them can be measured with perfect accuracy, together with the chances of the amplitudes being in some small degree, either in excess or defect, we may consider the result as sufficiently consistent and satisfactory, and take 60823 fathoms in latitude 52° 34′, or the centre of England, as the length of one degree.

SECTION SIXTH.

ART. I. *Latitudes and Longitudes of Five principal Stations.*

At page 308 of the first volume of the Trigonometrical Survey, the latitude of Dunnose is stated to be 50° 37′ 7″,3, and its longitude 1° 11′ 36″, west from the meridian of Greenwich. The former is derived from the supposition of 50° 44′ 23″7 being the latitude of Beachy Head, and the latter from 15° 11′ 9″ being the longitude eastward of that station. On this occasion it is proper to remark that, the difference in longitude as well as latitude of those stations, was determined from observations made on the pole star.

The arc in the heavens corresponding to its terrestrial subtence between Dunnose and Greenwich, is 0° 51′ 31″,39. See the account of the measurement of an arc of the meridian, page 107. Taking the latitude of Greenwich as 51° 28′ 40″, we get 50° 37′ 8″,61 for the corrected latitude of the first mentioned station, differing 1″,3 from the previous deduction.

The arc between Dunnose and Clifton Beacon, in Yorkshire, see the account of the former measurement, page 107, is 2° 50′ 23″,38 ; therefore 50° 37′ 8″,61 + 2° 50′ 23″,38 = 53° 27′ 31″,99 is the latitude of Clifton.

At page 57 of the same account, the bearings of the stations connecting Clifton Beacon and Dunnose, from the parallels to the meridian of the former, are given, and these bearings, which it will be necessary to repeat on another occasion, give 4917 feet for the distance of Dunnose from the meridian of Clifton. This

distance, using 61182 fathoms for the length of the degree perpendicular to the meridian in latitude 50° 41′, combined with the latitude of Dunnose as just found, gives 1′ 16″,5 the longitude of Clifton west from Dunnose. Therefore 1° 11′ 36″,+1′ 16″,5 =1° 12′ 52″,5, is the longitude of Clifton west from the meridian of Greenwich, 1° 11′ 36″ being the longitude of Dunnose.

The amplitude of the celestial arc, corresponding to the difference of latitude between Dunnose and Burleigh Moor, as shewn in a previous article, is 3° 57′ 13,″1. This, added to the latitude of Dunnose, gives 54° 34′ 21″,7 for that of Burleigh Moor.

In the former article, the distance from the parallel at Dunnose to the meridian of Burleigh Moor, is 36778 feet. This, calculating with the latitude of Dunnose, and 61182 fathoms for the length of the degree perpendicular to the meridian, gives 9′ 31″,6 for the longitude of Burleigh Moor east from Dunnose. Therefore 1° 11′ 36″—9′ 31″,6=1° 2′ 4″,4 is the longitude of that station west from Greenwich.

The latitude of Dunnose is 50° 37′ 8″,61. The difference between the parallels of that station and Blackdown in Dorsetshire, is 4′ 6″5; (see the second volume, page 90), therefore 50° 37′ 8″,6+4′ 6″5=50° 41′ 15″,11 is the latitude of Blackdown, which in the account of 1801, is stated from calculation to be 50° 41′ 13″8. The subtense of the arc, contained by the parallels of Dunnose and Delamere Forest, has been shewn in a foregoing article, to be 2° 36′ 12″,2, therefore 50° 37′ 8″,6+2° 36′ 12′2=53° 13′ 20″,8 is the latitude of the station on Delamere Forest.

The distance of the parallel at Black Down, from the meridian of Delamere Forest, is 31546,3 feet. This has been shewn in a former page. Taking 61182 fathoms for the length of the degree

perpendicular to the meridian, and using 50° 41′ 15″ for the latitude of Black Down, we get 8′ 8″,4 for the longitude of Delamere Forest west from Black Down. The longitude of Black Down is 2° 32′ 22″,4, see the second volume, page 91. Therefore 2° 32′ 22″,4+8′ 8″4=2° 40′ 30″,8, is the longitude of the station on Delamere Forest west from the meridian of Greenwich.

In a subsequent article, specifying the bearing and distances of the several stations from their respective meridians and perpendiculars, it will be shewn that Moel Rhyddlad, in Anglesea, is 406629,7 feet from the meridian of Delamere Forest, and 62475,3 feet north from the perpendicular at that station. These distances converted into their correspondent arcs, and used as *data*, give 53° 22′ 45″,38 for the latitude, and 1° 51′ 21,″1 for the longitude west from Moel Rhyddlad. The longitude of Delamere Forest is 2° 40′ 30″,8. Therefore 2° 40′ 30″.8+1° 51′ 21″,1=4° 31′ 51,″9 is the longitude of Moel Rhyddlad west from the meridian of Greenwich.

The latitudes and longitudes of these important stations, brought into one point of view, will be as follow.

	Latitude.	Longitude.
Dunnose -	50° 37′ 8,″6	1° 11′ 36″ W.
Clifton Beacon	53 27 32	1 12 52,5 W.
Burleigh Moor	54 34 21,7	1 2 4,4 W.
Delamere Forest	53 13 20,8	2 40 30,8 W.
Moel Rhyddlad	53 22 45,4	4 31 51,9 W.

ART. II. *Bearings and Distances of the several Stations from the Parallels and Perpendiculars to their respective Meridians.*

Meridian of Greenwich.

Names of Stations.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Lilleyhoe - -	Royston - -	65 11 46 NE	11716 W	204872 N
Lidlington -		88 55 23 NE		
Royston - -	Orwell - -	11 20 3 NE	3139 W	247664 N
Lilleyhoe - -		46 44 22 NE		
Royston - -	Balsham - -	62 18 6 NE	71083 E	248339 N
Orwell -		89 28 42 NE		
Orwell - -	Maddingly -	35 27 58 NE	14148 E	271932 N
Balsham - -		67 29 29 NW		
Balsham - -	Newmarket -	39 54 6 NE	101844 E	285127 N
Orwell - -		70 21 39 NE		
Newmarket -	Ely Minster -	35 12 21 NW	61891 E	341755 N
Balsham - -		5 37 15 NW		
Newmarket -	Brandon - -	35 54 15 NE	145203 E	345020 N
Ely Minster -		87 45 12 NE		
Brandon - -	Littleport - -	78 0 30 NW	69583 E	361080 N
Newmarket -		23 0 49 NW		
Maddingly - -	Northy - -	15 42 33 NE	30070 E	328539 N
Balsham - -		27 5 5 NW		
Bow Brickhill -	Brogborough -	51 14 35 NE	133800 W	204635 N
Lilleyhoe - -		56 8 17 NW		
Bow Brickhill -	Hill Farm -	43 16 24 SE	140324 W	178714 N
Brogborough -		14 7 45 SW		
Bow Brickhill -	Horsemoor Hill -	83 7 44 SE	14305 W	189517 N
Brogborough -		32 10 10 SW		

The Bearings of the Stations Lilleyhoe and Lidlington, and Bow Brickhill and Lilleyhoe, from the parallels to the meridian of Greenwich, and their distances from the meridian and its perpendicular, as given at page 116, in the second volume, are the data on which the above results are founded, combined with the angles and sides of the proper Triangles.

Meridian of Clifton Beacon.

Names of Stations.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Clifton Beacon -	Hathersage -	61 51 50 SW	81329 W	43491 S
	Gringley Beacon -	76 17 26 SE	72929 E	17791 S
Clifton Beacon -	Bradfield Point - -	86 8 0 SW	82954 W	5607 S
Hathersage -		2 27 20 NW		
Clifton Beacon -	North end of Base	68 57 52 NE	68435 E	26319 N
Gringley Beacon -		5 49 4 NW		
Clifton Beacon -	South end of Base -	89 45 12 NW	64461 E	278 N
North end of Base -		8 40 36 SW		
Hathersage -	Sutton Ashfield - -	44 34 55 SE	369 W	125641 S
Gringley Beacon -		34 12 4 SW		
Hathersage - -	Orpit Heights -	5 26 19 SE	71694 W	144693 S
Orpit Heights -	Bardon Hill -	21 21 36 SE	22198 W	271254 S
Orpit Heights -	Holland Hill -	83 30 1 SE	23664 E	155558 S
Bardon Hill -		21 37 23 NE		
Hathersage -	Lords Seat -	85 37 37 NW	133662 W	39493 S
Weaver Hill -		3 24 20 NE		
Arbury Hill -	Helkinton - -	29 2 7 NE	34827 E	391004 S
Bardon Hill -		25 27 46 SE		
Arbury Hill -	Burrow Hill -	56 5 38 NE	17844 E	439430 S
Helkinton - -		19 19 29 SW		
Holland Hill - -	Stathern Point -	47 9 32 SE	85053 E	212486 S
Bardon Hill -		6 16 47 NE		
Stathern Point -	Tilton on the Hill -	4 31 52 SW	78408 E	296328 S
Helkinton - -		24 43 1 NE		
Bardon Hill -	Cropwell Bishop -	45 1 13 NE	46987 E	202118 S
Stathern Point -		74 45 49 NW		
Stathern Point -	Bottesford - -	18 48 20 NE	94193 E	185647 S
Cropwell Bishop -		70 45 56 NE		
Helkinton -	Naseby Field -	69 52 49 NE	53777 E	384063 S
Tilton on the Hill -		15 40 53 SW		
Cropwell Bishop -	South end of proposed	81 9 9 SE	75189 F	206509 S
Holland Hill -	Base - -	45 19 11 SE		
Holland Hill -	Lincoln Minster -	59 19 29 NE	149652 E	80825 S
Stathern Point -		26 8 6 NE		

Meridian of Burleigh Moor.

	Easington Heights -	86 59 38 SE	42212 E	2217 S
	Botton Head -	9 7 2 SW	9659 W	60186 S
Burleigh Moor -	Barnaby Moor -	73 24 14 SE	17363 W	5175 S
	Wordeslow Hill -	38 33 34 NW	81057 W	101686 N
	Brandon Down -	63 18 2 NW	134695 W	67743 N
Easington Heights -	Loosehoe Moor -	15 35 57 SW	25542 E	61925 S
Botton Head -		87 10 17 SE		

Names of Stations.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feee.	Feet.
Botton Head -	Hemingbrough Spire	5 36 4 SE	13145 E	293404 S
Botton Head -	Wilton Beacon -	24 55 15 SE	59670 E	209399 S
Hemingbrough Spire		28 58 54 NE		
Wilton Beacon -	Hunsley Beacon -	29 17 43 SE	100216 E	281667 S
Hemingbrough Spire		82 19 27 NE		
Hunsley Beacon -	Crowle Beacon -	37 21 7 SW	47208 E	351120 S
Hemingbrough Spire		30 32 55 SE		
Botton Head -	Hambleton Down -	25 46 19 SW	37847 W	118576 S
Hemingbrough Spire		16 51 36 NW		
Botton Head -	Black Hambleton -	43 57 31 SW	44663 W	96486 S
Hambleton Down -		17 9 5 NW		
Hambleton Down -	Ledstone Beacon -	7 28 25 SW	60436 W	290781 S
Hemingbrough Spire		87 57 34 NW		
Ledstone Beacon -	Staincross Heights -	32 11 37 SW	102307 W	357288 S
Hemingbrough Spire		61 2 32 SW		
Wordeslow Hill -	Pontop Pike -	83 28 33 NW	153207 W	109938 N
Brandon Down -		23 41 14 NW		
Brandon Down -	Collier Law -	84 0 2 NW	197500 W	74342 N
Pontop Pike -		51 12 43 SW		
Pontop Pike -	Rufflaw -	1 10 30 NE	150596 W	237313 N
Collier Law - -		16 3 22 NE		
Collier Law -	Simonside Hill -	1 34 31 NE	192365 W	261038 N
Rufflaw - -		60 24 8 NW		
Rufflaw - -	Alnwick Moor -	0 24 3 NW	151104 W	309898 N
Simonside Hill -		40 10 51 NE		

Meridian of Delamere Forest.

Delamere Forest -	Mow Copt -	69 33 55 SE	103809 E	38678 S
	Ashley Heath -	31 25 38 SE	67472 E	110418 S
	Hawkestone Obelisk -	5 37 21 SE	13041 E	132465 S
	Rodney's Pillar -	23 38 57 W	79676 W	181945 S
	Cyrn y Brain Mountain	58 13 0 SW	107472 W	66593 S
	Garreg Mountain -	78 39 26 NW	134612 W	27002 N
	Heswell Hill -	65 44 30 NW	90942 W	40982 N
	Billinge Beacon -	3 42 32 NW	6757 W	104244 N
	Bellefield Hill -	25 18 54 NE	22794 E	48188 N
Garreg Mountain -	Llanelian Mountain,	82 13 19 SW	228856 W	14129 S
Cyrn y Brain Mountain	Denbighshire -	56 22 31 NW		
Garreg Mountain -	Great Ormes Head -	82 34 15 NW	255197 W	42726 N
Llanelian Mountain		42 38 51 NW		
Garreg Mountain -	Snowdon - -	64 56 48 SW	305714 W	52979 S
Cyrn y Brain Mountain		86 4 19 NW		
Garreg Mountain -	Arrennig Mountain	36 2 47 SW	233929 W	109465 S
Cyrn y Brain Mountain		71 16 16 SW		
Garreg Mountain -	Arran Fowddy -	25 19 55 SW	221777 W	157137 S
Cyrn y Brain Mountain		51 36 53 SW		

Names of Stations.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Garreg Mountain -	Llanelian Mountain, Anglesea -	79 1 47 NW	351829 W	69108 N
Llanelian Mountain		65 54 43 NW		
Llanelian Mountain A.	Moel Rhyddlad -	83 5 58 SW	406630 W	62475 N
Snowdon - -		41 9 23 NE		
Llanelian Mountain D.	Moelfre Issa -	83 53 4 SE	194295 W	10417 N
Great Ormes Head -		62 3 38 SE		
Moelfre Issa -	Gwaunysgaer Down -	55 22 33 NE	155312 W	37337 N
Great Ormes Head -		86 54 52 SE		
Moelfre Issa -	West end of Base -	6 37 46 NW	196327 W	27903 N
Gwaunysgaer Down		77 2 58 SW		
West end of Base -	East end of Base -	82 23 2 SE	172029 W	24653 N
Moelfre Issa -		57 24 25 NE		
Ashley Heath -	Weaver Hill -	72 32 24 NE	181622 E	74514 S
Mow Copt -		65 16 18 SE		
Weaver Hill -	Castle Ring -	8 9 19 SW	165854 E	184538 S
Ashley Heath -		53 0 21 SE		
Ashley Heath -	The Wrekin -	22 27 47 SW	29760 E	201633 S
Castle Ring -		82 50 23 SW		
Ashley Heath -	Long Mount Pole -	38 5 12 SW	39648 W	247096 S
Cyrn y Brain Mountain		30 25 36 SE		
Hawkestone Obelisk	Long Mountain -	52 46 51 SW	89341 W	210231 S
Cyrn y Brain Mountain		7 11 37 SE		
Ashley Heath -	Brown Clay Hill -	16 38 10 SW	19204 E	271961 S
Hawkestone Obelisk		2 31 50 SE		
Brown Clay Hill -	Bar Beacon - -	76 43 14 NE	172227 E	235846 S
Long Mountain -	Stow Hill -	10 7 40 SE	71037 W	312714 S
Brown Clay Hill -		65 41 43 SW		
Stow Hill - -	Malvern Hill -	57 32 1 SE	77903 E	407477 S
Brown Clay Hill -		23 25 12 SE		
Malvern Hill -	Cradle Mountain -	72 29 18 SW	98546 W	463149 S
Stow Hill - -		10 21 49 SW		
Stow Hill - -	Llandinam Mountain	77 40 2 NW	167591 W	291605 S
Long Mountain -		43 52 44 SW		
Long Mountain -	Radnor Forest -	10 36 5 SW	115144 W	348076 S
Stow Hill -		51 16 46 SW		
Malvern Hill -	May Hill - -	16 21 1 SW	54754 E	486403 S
Cradle Mountain -		81 22 30 SE		
Malvern Hill -	Trelleg Beacon -	32 15 1 SW	5077 W	538994 S
May Hill - -		48 41 6 SW		
Malvern Hill -	Cleeve - -	48 25 18 SE	153392 E	474442 S
May Hill - -		83 5 3 NE		
Malvern Hill -	Symmonds Hall -	2 41 37 SE	85483 E	568490 S
May Hill - -		20 31 32 SE		
Trelleg Beacon -	Mynydd Mane -	72 46 4 SW	87588 W	564584 S
Cradle Mountain -		6 10 4 SE		
Cradle Mountain -	Llangeinor Mountain	42 26 3 SW	201382 W	575632 S
Mynydd Mane -		84 27 17 SW		
Mynydd Mane -	Capellante -	53 57 7 NW	183410 W	494842 S
Llangeinor Mountain		12 32 29 NE		

Names of Stations.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Mynydd Mane -	Garth Hill -	47 1 42 SW	138509 W	612023 S
Llangeinor Mountain		59 56 15 SE		
Garth Hill - -	Ogmoor Down -	69 1 13 SW	209328 W	639180 S
Llangeinor Mountain		7 7 39 SW		
Mynydd Mane -	Flatholmes Lighthouse	5 56 26 SW	98908 W	673438 S
Garth Hill -		32 48 49 SE		
Garth Hill - -	Dunkery Beacon -	26 18 44 SW	206790 W	750102 S
Ogmoor Down -		1 18 37 SE		
Heswell Hill -	Go Hill -	26 47 4 NE	48691 W	124679 N
Billinge Beacon -		64 1 8 NW		
Wittle Hill - -	Rivington Hill -	75 48 18 SW	36849 E	149004 N
Billinge Beacon -		44 15 7 NE		
Mow Copt - -	Wittle Hill -	3 39 47 NW	90920 E	162679 N
Billinge Beacon -		59 6 3 NW		
Wittle Hill -	Axedge - -	24 2 14 SE	161352 E	4756 N
Mow Copt - -		52 57 14 NE		
Wittle Hill -	Holme Moss -	61 9 43 SE	174440 E	116690 N
Axedge - -		6 40 0 NE		
Wittle Hill -	Bleasdale Forest -	40 30 20 NW	13382 E	253449 N
Billinge Beacon -		7 41 13 NE		
Wittle Hill -	Boulsworth Hill -	31 33 35 NE	124757 E	217768 N
Bleasdale Forest -		72 14 12 SE		
Boulsworth Hill -	Rumbles Moor -	62 2 19 NE	185144 E	249824 N
Holme Moss -		4 35 47 NE		
Boulsworth Hill -	Great Whernside -	10 8 43 NE	147270 E	343577 N
Rumbles Moor -		21 59 51 NW		
Boulsworth Hill -	Pendle Hill - -	65 45 8 NW	83529 E	236338 N
Wittle Hill -		5 43 48 NW		
Bleasdale Forest -	Beryl Hill -	72 54 9 SW	76892 W	225684 N
Billinge Beacon -		30 0 27 NW		
Boulsworth Hill - -	Ingleborough Hill -	26 22 20 NW	61683 E	344985 N
Great Whernside -		89 3 28 NW		
Ingleborough Hill -	Black Comb -	86 21 7 NW	137430 W	378835 N
Bleasdale Forest -		50 15 34 NW		
Ingleborough Hill -	The Calf -	18 45 34 NW	36724 E	418477 N
Black Comb - -		77 10 34 NE		
Ingleborough Hill -	Shunnor Fell -	24 45 45 NE	96196 E	419806 N
The Calf - -		88 43 10 NE		
Shunnor Fell - -	Water Crag - -	47 6 8 NE	122356 E	444112 N
Great Whernside -		13 54 59 NW		
Ingleborough Hill -	Helvellin Mountain -	45 5 52 NW	70466 W	476684 N
Black Comb - -		34 23 10 NE		
Black Comb - -	Sca Fell, Lower Top -	18 13 18 NE	114683 W	447935 N
The Calf - -		78 59 26 NW		
Black Comb - -	Dent Hill -	20 5 39 NW	170400 W	468957 N
Sca Fell, Lower Top -		69 19 40 NW		
The Calf - -	Cross Fell -	2 29 23 NE	42045 E	540868 N
Helvellin Mountain -		60 17 46 NE		
The Calf - -	High Pike -	43 7 38 NW	78855 W	541870 N
Cross Fell - -		89 31 27 NW		

Names of Stations.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Cross Fell - -	Crif-Fell - -	69 52 16 NW		
Helvellin Mountain -		40 0 0 NW	198212 W	628927 N
Dent Hill - -	Scilly Bank - -	36 38 6 NW		
Black Comb -		23 35 20 NW	185862 W	489750 N
Dent Hill - -	Skiddaw - -	53 42 21 NE		
Crif-Fell - -		43 16 5 SE	97810 W	522264 N
Black Comb - -	Snea Fell - -	88 32 34 NW		
Scilly Bank - -		61 35 18 SW	379503 W	384996 N
Black Comb -	North Berule -	86 3 45 NW		
Scilly Bank - -		61 58 31 SW	364827 W	394489 N
Crif-Fell - -	Wisp Hill -	48 18 8 NE		
Cross Fell - -		25 23 18 NW	58722 W	753194 N
Cross Fell - -	The Cheviot - -	13 52 31 NE		
Wisp Hill - -		67 22 33 NE	112071 E	824364 N
Wisp Hill - -	Sayrs Law - -	16 46 17 NE		
The Cheviot -		39 3 57 NW	3167 E	958532 N
Wisp Hill - -	Queensberry Hill -	89 59 18 NW		
Crif-Fell - -		4 11 28 NE	189103 W	753213 N
Wisp Hill - -	The Dunrigs -	22 56 35 NW		
Sayrs Law - -		46 47 56 SW	103316 W	858540 N
Sayrs Law - -	Mordington Hill -	83 38 21 SE		
The Cheviot - -		6 47 36 NE	126416 E	944793 N
Mordington Hill -	Blackheddon -	25 55 25 SE		
Sayrs Law - -		63 49 54 SE	156316 E	883277 N
Blackheddon -	Lumsdane Hill -	30 40 46 NW		
Sayrs Law - -		76 44 42 NE	98366 E	980955 N
Sayrs Law - -	Largo Law - -	20 11 25 NW		
Lumsdane Hill -		51 3 23 NW	48820 W	1099902 N
Sayrs Law - -	East Lomond Top -	37 44 22 NW		
Lumsdane Hill -		59 26 36 NW	108892 W	1103315 N

Meridian of Moel Rhyddlad.

Moel Rhyddlad -	Llanelian Mountain -	81 36 11 NE	54607 E	8061 N
Moel Rhyddlad -		66 40 5 SE		
Llanelian Mountain A.	Llwydiart Mountain -	29 37 8 SE	78418 E	33824 S
Moel Rhyddlad -	Signal Staff -	49 29 56 SW		
Llwydiart Mountain -	Holyhead Mountain -	84 32 39 NW	27731 W	23685 S
Moel Rhyddlad -		42 39 10 SE		
Llanelian Mountain A.	Snowdon - -	22 11 37 SE	103898 E	112779 S
Moel Rhyddlad -		5 13 53 SW		
Llwydiart Mountain -	Rhiw Mountain -	30 18 20 SE	18237 W	199184 S
Moel Rhyddlad -		11 44 38 SW		
Llwydiart Mountain -	Ynaliog Mountain -	35 1 36 SW	43059 W	207137 S
Moel Rhyddlad - -		18 4 43 SE		
Llwydiart Mountain -	Bwlch Mawr -	18 15 50 SW	44545 E	136458 S

Names of Stations.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Snowdon - -	Pengarn Mountain - -	4 13 33 SE	114438 E	255418 S
Rhiw Mountain -		67 1 48 SE		
Rhiw Mountain -	Cader Idris -	73 20 1 SE	141910 E	247128 S
Pengarn Mountain -		73 12 33 NE		
Rhiw Mountain -	Aberystwith Station -	40 22 29 SE	106482 E	345860 S
Pengarn Mountain -		5 1 25 SW		
Aberystwith Station -	Plynlimmon - -	77 37 48 NW	170698 E	331775 S
Cader Idris - -		18 47 1 SE		
Aberystwith Station -	Tregarron Down - -	35 31 42 SE	157384 E	417147 S
Plynlimmon -		8 51 48 SW		
Aberystwith Station -	Talsarn - - -	10 5 13 SE	92719 E	423237 S
Tregarron Down -		84 37 9 SE		
Talsarn - -	Trecastle Beacon -	38 36 8 SE	189864 E	544915 S
Tregarron Down -		14 15 52 SE		
Talsarn - -	New Inn Hill -	11 28 42 SW	74985 E	510580 S
Trecastle Beacon -		73 21 40 NW		
Talsarn - -	Capel Kynon -	56 7 6 SW	38457 E	459678 S
New Inn Hill -		35 39 54 NW		
Talsarn -	Precelly Top -	55 17 51 SW	50868 W	522673 S
New Inn Hill -		84 30 37 SW		
New Inn Hill -	Lannon - -	10 8 22 SE	89844 E	593665 S
Trecastle Beacon -		64 0 51 SW		
Lannon -	Margam Down -	59 46 54 SE	191672 E	652970 S
Trecastle Beacon -		0 57 36 SE		
Lannon - -	Cefn Bryn -	2 51 20 SE	92956 E	656078 S
Margam Down -		88 11 54 SW		
Lannon - -	Marros Beacon -	87 59 48 SW	12256 W	597233 S
Cefn Bryn -		60 46 48 NW		
Precelly Top -	Highgate Mountain -	19 56 32 SW	88575 W	626605 S
Marros Beacon -		68 56 59 SW		
Precelly Top -	Newton Down -	22 55 9 SW	83414 W	599655 S
Marros Beacon -		88 2 59 SW		
Precelly Top -	Plumstone Down -	64 45 32 SW	111248 W	551138 S
Newton Down -		29 50 31 NW		
Plumstone Down -	St. Ann's Hill -	24 46 13 SW	140424 W	614368 S
Newton Down -		75 31 50 SW		

Meridian of Black Down.

Mendip Hill -	Blagdon -	52 38 31 NW	43818 W	228302
Dundry Beacon -		35 35 24 SW		
Blagdon -	Brent Knoll -	65 53 48 SW	90868 W	207251 N
Moorlynch -		23 39 38 NW		
Blagdon -	Bagborough -	54 50 9 SW	147982 W	154918 N
Moorlynch -		84 41 22 SW		
Blagdon - -	Flatholmes Lighthouse	74 40 29 NW	130067 W.	251937 N
Moorlynch -		33 17 1 NW		

Names of Stations.		Bearings.	Distance from Meridian.	Distances from Perpendicular.
		° ′ ″	Feet.	Feet.
Bagborough -	Dunkery Beacon - -	77 9 29 NW	238111 W	175468 N
Flatholmes Lighthouse		54 42 45 SW		
Bagborough -	Brompton Ralph -	81 37 59 SW	178930 W	150372 N
Dunkery Beacon -		67 1 13 SE		
Bagborough -	Haddon Beacon - -	71 49 31 SW	214760 W	133012 N
Dunkery Beacon -		28 47 53 SE		
Dunkery Beacon -	North Molton Ridge -	50 15 12 SW	274478 W	145215 N
Haddon Beacon -		78 27 11 NW		
Dunkery Beacon -	Span Head - -	72 47 9 SW	290090 W	159356 N
North Molton Ridge -		47 49 2 NW		
Span Head -	Cotten Hill - -	63 48 31 SW	339088 W	135255 N
North Molton Ridge -		81 14 18 SW		
North Molton Ridge -	Paracombe - -	36 17 52 NW	300870 W	181147 N
Cotten Hill -		39 47 18 NE		
Paracombe - -	Hangman Hill -	65 33 26 NW	333480 W	195969 N
Cotten Hill -		5 16 42 NE		
Paracombe -	Hartland Point -	71 2 45 SW	454335 W	128443 N
North Molton Ridge -		84 40 21 SW		

ART. III. *Bearings and Distances of several Church Steeples, and other Objects of Note, in the third Section of the present Work, from the Parallels and Perpendiculars to their respective Meridians.*

Meridian of Greenwich.

Royston -	Great St. Mary's Steep.	32 23 38 NE	28388 E	268080 N
Orwell - -	Cambridge -	57 4 23 NE		
Royston - -	Coton Spire -	22 16 6 NE	14924 E	269929 N
Orwell - -		39 3 2 NE		
Royston - -	Great Eversden Steeple	15 6 51 NE	1252 E	242889 N
Orwell - -		40 2 41 NE		
Royston - -	Melbourne Steeple	43 7 50 NE	4470 E	222150 N
Orwell - -		16 36 19 SE		
Royston - -	Headon Steeple -	89 36 43 NE	21214 E	205095 N
Orwell - -		29 46 21 SE		
Royston - -	Chishall Steeple -	83 14 16 SE	17587 E	201398 N
Orwell - -		24 7 51 SE		
Royston - -	Orwell Steeple - -	15 16 38 NE	1740 W	241394 N
Orwell - -		12 34 33 SE		
Royston - -	Ashwell Spire -	87 20 24 NW	35334 W	205969 N
Orwell - -		37 40 30 SE		
Royston - -	Meldreth Steeple -	31 35 40 NE	3159 E	229056 N
Orwell - -		18 41 56 SE		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Royston - -	Bassingbourn Steeple	5 39 56 NW	13221 W	220027 N
Orwell - -		20 2 24 SW		
Maddingly - -	Granchester Steeple	32 33 20 SE	23050 E	257990 N
Orwell - -		68 28 53 NE		
Maddingly - -	Trinity College Chapel	76 46 14 SE	27944 E	268691 N
Orwell -		55 55 27 NE		
Maddingly -	Trinity Spire, Cambridge -	76 7 30 SE	28881 E	268293 N
Orwell -		57 12 38 NE		
Maddingly - -	Trumpington Steeple	37 9 15 SE	26121 E	256134 N
Orwell - -		73 51 23 NE		
Balsham - -	Balsham Steeple -	29 16 22 SE	275294 E	240826 N
Orwell - -		85 1 4 SE		
Balsham - -	Sutton Steeple -	24 26 37 NW	30238 E	338199 N
Newmarket - -		53 27 19 NW		
Balsham - -	Haddenham Spire -	24 35 28 NW	35246 E	326645 N
Newmarket -		58 3 33 NW		
Maddingly - -	Cottenham Spire -	29 32 54 NE	31634 E	302774 N
Balsham -		35 55 43 NW		
Balsham -	Bottisham Steeple -	19 53 30 NW	61759 E	274107 N
Newmarket -		74 37 42 SW		
Newmarket -	Mildenhall Steeple -	26 8 46 NE	119353 E	320794 N
Brandon Hill -		46 51 46 SW		
Newmarket -	Stretham Steeple -	53 15 1 NW	51552 E	322685 N
Brandon Hill -		76 35 9 SW		
Bowbrickhill -	Therfield Steeple -	87 31 42 NE	12525 W	196493 N
Kinsworth - -		63 7 16 NE		
Bowbrickhill -	Kelshall Steeple -	88 40 18 NE	14491 W	193673 N
Kinsworth -		63 54 27 NE		
Bowbrickhill -	Sandon Steeple -	89 0 56 SE	16722 W	188184 N
Kinsworth - -		65 53 23 NE		
Horsemoor Hill -	Goldington Steeple	23 33 41 NE	139201 W	198933 N
Brogborough -		43 27 14 SW		
Horsemoor Hill -	Marston Mortyne Steeple - -	23 2 32 NE	138390 W	201080 N
Brogborough -		52 14 7 SW		
Hill Farm -	Woburn Abbey -	16 19 0 SE	134742 W	159647 N
Brogborough -		1 12 0 SW		
Hill Farm -	Milton Bryant Steeple	87 12 14 NE	132245 W	179108 N
Bowbrickhill -		59 17 36 SE		
Trusler Hill -	Tuddington Steeple	33 47 54 SE	119593 W	172696 N
Lilleyhoe - -		87 50 50 NW		
Trusler Hill - -	Aspley Steeple -	54 15 40 NW	141158 W	197260 N
Brogborough -		44 55 42 SW		
Trusler Hill - -	Willen Steeple -	51 43 37 NW	150362 W	205205 N
Brogborough - -		88 1 30 NW		
Trusler Hill - -	Little Brickhill Steeple	76 23 52 SW	152039 W	185126 N
Bowbrickhill - -		6 38 48 SW		

Meridian of Clifton Beacon.

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Gringley Beacon -	Belton Steeple -	15 29 33 NE	87035 E	33103 N
Crowle Beacon -		1 55 55 SE		
Clifton Beacon -	Gringley on the Hill, Steeple - -	75 40 29 SE	71069 E	18149 S
Crowle Beacon -		11 39 42 SW		
Clifton Beacon -	Selby Steeple -	15 33 15 NE	33168 E	119160 N
Crowle Beacon -		39 51 32 NW		
Clifton Beacon -	Axholme Steeple -	81 40 8 NE	80819 E	118350 N
Crowle Beacon -		7 7 15 SW		
Clifton Beacon -	Loughton Spire -	1 55 41 SW	855 W	25395 S
Crowle Beacon -		47 6 38 SW		
Clifton Beacon -	Hatfield Spire -	35 20 29 NE	26961 E	38021 N
Crowle Beacon -		73 32 23 SW		
Clifton Beacon -	Thorne Steeple -	47 17 30 NE	60788 E	56109 N
Crowle Beacon -		88 44 6 NW		
Gringley Beacon -	Epworth Steeple -	18 17 2 NE	87230 E	25492 S
Crowle Beacon -		1 48 30 SE		
Gringley Beacon -	Missin Steeple -	42 58 22 SW	60330 E	4267 S
Clifton Beacon -		85 57 15 SE		
Gringley Beacon -	East Retford Spire -	23 11 31 SW	68706 E	27648 S
Clifton Beacon -		68 4 40 SE		
Arbury Hill -	South Kilworth Steeple	6 44 16 NE	12983 E	357551 S
Helkinton - -		33 7 50 NW		
Arbury Hill -	Lutterworth Steeple	1 21 58 NE	4055 E	366076 S
Helkinton -		50 58 9 NW		
Arbury Hill -	West Haddon Steeple	35 19 8 NE	32146 E	407593 S
Helkinton -		9 11 32 SW		
Arbury Hill -	Daventry Spire -	43 34 34 NE	14342 E	437149 S
Helkinton - -		23 56 51 SW		
Arbury Hill -	Guilesborough Spire	45 3 26 NE	47225 E	404981 S
Helkinton -		41 36 17 SE		
Arbury Hill -	Dunchurch Steeple -	22 40 44 NW	15129 W	408949 S
Helkinton - -		70 15 35 SW		
Arbury Hill -	Misterton Steeple -	2 11 30 NE	5341 E	364142 S
Helkinton - -		47 38 54 NW		
Arbury Hill -	Naseby Steeple -	38 14 51 NE	51618 E	387186 S
Helkinton - -		77 7 47 NE		
Arbury Hill -	Branston Spire -	1 39 42 NW	1354 E	425966 S
Burrow Hill -		50 43 46 NW		
Arbury Hill -	Shuckburgh Steeple -	54 32 54 NW	11865 W	440155 S
Burrow Hill -		88 38 29 SW		
Arbury Hill -	Cold Ashby Steeple -	33 44 57 NE	42855 E	388998 S
Burrow Hill -		26 22 5 NE		
Helkinton - -	North Kilworth Spire	18 24 42 NW	27927 E	370295 S
Naseby Station -		61 55 55 NW		
Helkinton - -	Sibertoft Steeple -	37 15 9 NE	49364 E	371906 S
Naseby Station -		19 55 37 NW		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Weaver Hill -	Litchfield Spire -	2 39 51 SE	135299 W	281269 S
Stathern Point -	Cold Overton Steeple	6 8 43 SE	92595 E	282549 S
Burrow Hill -		69 38 35 SE		
Helkinton - -	Welford Steeple -	6 13 44 NE	36058 E	379737 S
Naseby Station -		76 13 47 NW		
Tilton on the Hill -	Waltham on the Wolds Spire -	11 3 43 NE	90672 E	233612 S
Stathern Point -		14 54 12 SE		
Tilton on the Hill	Tilton on the Hill Spire	84 44 36 SW	70495 E	297071 S
Burrow Hill -		17 18 46 SW		
Bardon Hill -	Nottingham Steeple	24 27 17 NE	17087 E	184882 S
Stathern Point -		67 53 10 NW		
Bardon Hill -	Breedon on the Hill Steeple -	27 36 4 NW	39795 W	237803 S
Stathern Point -		78 32 0 SW		
Stathern Point -	Bottesford Spire -	16 50 47 NE	92637 E	187441 S
Holland Hill -		65 11 53 SE		
Stathern Point -	Redmile Spire -	17 15 3 NE	89183 E	199187 S
Holland Hill -		56 20 47 SE		
Stathern Point -	Bingham Spire -	41 47 23 NW	59897 E	184351 S
Holland Hill -		51 32 11 SE		
Stathern Point -	Langar Steeple -	21 37 39 NW	79032 E	197314 S
Holland Hill -		52 59 5 SE		
Stathern Point -	Plungar Steeple -	30 32 48 NW	80030 E	203988 S
Holland Hill - -		49 20 13 SE		
Stathern Point -	Granby Steeple -	34 58 3 NW	74090 E	196824 S
Holland Hill -		50 42 46 SE		
Stathern Point -	Caythorpe Spire -	42 39 16 NE	136234 E	156941 S
Holland Hill -		89 18 3 SE		
Stathern Point -	Coleby Spire -	33 46 54 NE	148510 E	117637 S
Holland Hill -		73 6 1 NE		
Stathern Point -	Leadenham Spire -	39 49 16 NE	140045 E	146540 S
Holland Hill -		85 33 53 NE		
Stathern Point -	Harmstone Steeple -	31 58 54 NE	147740 E	112101 S
Holland Hill -		70 41 37 NE		
Stathern Point -	Newark Spire - -	1 15 56 NE	86657 E	139788 S
Holland Hill -		75 56 13 NE		
Stathern Point -	Stathern Steeple -	67 36 38 SW	81082 E	214141 S
Bottesford - -		24 43 1 SW		
Stathern Point -	Boothby Steeple -	37 3 12 NE	152309 E	123418 S
Bottesford -		43 2 16 NE		
Stathern Point -	Wellingore Steeple	38 49 29 NE	150676 E	130952 S
Bottesford - -		45 54 55 NE		
Stathern Point -	Over Broughton Steeple	63 25 42 SW	51597 E	229230 S
Bottesford -		44 21 1 SW		
Stathern Point -	Long Bennington Steeple	25 54 6 NE	104723 E	171982 S
Bottesford -		37 36 29 NE		
Stathern Point -	Doddington Spire -	23 49 2 NE	106890 E	163027 S
Bottesford - -		29 17 40 NE		
Stathern Point -	Foston Spire -	27 33 15 NE	97792 E	188084 S
Bottesford -		56 1 34 SE		

Names of Stations	intersected Objects.	Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Stathern Point -	Nether Broughton Steeple - -	60 8 11 SW	55666 E	229371 S
Bottesford -		41 23 29 SW		
Bardon Hill -	Loughborough Steeple	49 45 0 NE	3591 E	249436 S
Tilton on the Hill -		57 54 51 NW		
Bardon Hill -	Belton Spire -	8 34 22 NW	25045 W	252377 S
Loughborough -		84 8 10 SW		
Cropwell Bishop -	Kilvington Steeple -	70 32 59 SE	77941 E	213060 S
Bottesford - -		30 40 15 SW		
Cropwell Bishop -	Barkston Spire -	88 18 3 NE	82828 E	201067 S
Bottesford - -		36 24 51 SW		
Cropwell Bishop -	Whatton Spire -	56 36 31 NE	72322 E	185427 S
Bottesford - -		89 24 0 NW		
Holland Hill -	Kritch Spire -	1 53 19 NW	20906 E	71861 S
Sutton - -		21 34 48 NE		
Sutton - -	Sutton Spire -	67 14 48 NW	10923 W	121219 S
Orpit Heights -		68 52 37 NE		
Sutton - -	Kirby Spire -	60 39 21 SW	10749 W	131480 S
Orpit Heights -		77 45 47 NE		
Weaver Hill -	Derby Steeple -	68 21 24 SE	56752 W	194407 S
Orpit Heights		16 44 5 SW		

Meridian of Burleigh Moor.

Wilton Beacon -	York Minster -	79 19 30 SW	8951 W	222335 S
Botton Head -		0 15 0 SE		
Rumbles Moor -	York Spire -	83 20 6 NE	8621 W	224182 S
Ledstone Beacon -		37 52 57 NE		
Rumbles Moor -	Wakefield Spire -	41 3 31 SE	99015 W	323960 S
Ledstone Beacon -		49 18 14 SW		
Ledstone Beacon -	Brayton Spire -	88 48 22 SE	9627 W	291840 S
Staincross Heights -		54 46 17 NE		
Ledstone Beacon -	Drax Spire -	77 23 45 SE	13676 E	307353 S
Staincross Heights -		66 42 22 NE		
Rumbles Moor -	High Howland Steeple	24 1 6 SE	118661 W	357190 S
Staincross Heights -		89 39 14 SW		
Ledstone Beacon -	Howden Steeple -	83 45 0 SE	37484 W	301504 S
Hambleton Down -		22 22 56 SE		
Ledstone Beacon -	Bishop Wilton Spire	56 9 25 NE	55128 E	213291 S
Hambleton Down		44 28 7 SE		
Hambleton Down -	Ripon Church -	58 16 17 SW	102931 W	158820 S
Black Hambleton Down		43 4 8 SW		
Wilton Beacon -	Home Steeple -	56 24 9 NE	107477 E	241160 S
Hunsley Beacon -		10 9 51 NE		
Hunsley Beacon -	Crowle Steeple -	38 31 3 SW	44466 W	351709 S
Crowle Beacon -		77 51 18 SW		
Collier Law -	Durham Cathedral	89 59 8 SE.	113047 W	74320 N
Wordeslow Hill -		49 27 35 SW		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Collier Law - -	Brusselton Folly -	47 20 10 SE	136738 W	18342 N
Wordeslow Hill -		33 44 52 SW		
Collier Law - -	Westerton Folly -	63 35 35 SE	124502 W	38093 N
Wordeslow Hill -		34 20 33 SW		
Collier Law - -	Merrington Ch. Tower	66 24 54 SE	117265 W	39312 N
Wordeslow Hill -		30 8 15 SW		
Collier Law -	West Boldon Spire -	60 47 12 NE	86809 W	136240 N
Wordeslow Hill -		9 27 3 NW		
Collier Law - -	Newbiggin Spire -	33 54 6 NE	96493 W	224649 N
Wordeslow Hill -		7 9 17 NW		
Collier Law - -	Seaton Delaval Summer	42 45 16 NE	93574 W	186754 N
Wordeslow Hill -	House -	8 22 15 NW		
Brandon Down -	North Shields Church -	27 48 39 NE	85524 W	160965 N
Wordeslow Hill -		4 18 31 NW		
Brandon Down -	Sherf Hill Beacon Staff	17 39 1 NE	113713 W	113692 N
Wordeslow Hill -		45 34 25 NW		
Wordeslow Hill -	Hartlepool Church	42 16 24 SE	29883 W	45393 N
Burleigh Moor -	Tower -	33 21 24 NW		
Wordeslow Hill	Sunderland Lighthouse	28 13 14 NE	67529 W	126893 N
Burleigh Moor -		28 1 13 NW		
Wordeslow Hill -	Windmill on Marston	9 33 37 NE	74124 W	142852 N
Burleigh Moor -	Hill - -	27 25 26 NW		
Burleigh Moor - -	Easington Church	40 37 54 NW	66871 W	77931 N
Brandon Down -	Tower -	81 27 23 NE		
Wordeslow Hill -	Chester-le-Street Spire	84 57 12 NW	111826 W	104402 N
Pontop Pike -		82 22 58 SE		
Wordeslow Hill -	Whitburn Spire -	18 32 26 NE	68944 W	137802 N
Pontop Pike - -		71 42 8 NE		
Wordeslow Hill -	Tynemouth Lighthouse	2 7 23 NE	78739 W	164237 N
Rufflaw -		44 31 8 SE		
Rufflaw - - -	Lighthouse Coquet Is-	48 20 18 NE	103876 W	278882 N
Alnwick Moor -	land - -	56 42 20 SE		
Rufflaw - -	Earls Mount Obelisk -	2 12 9 NE	147683 W	313031 N
Alnwick Moor -		47 30 47 NE		
Rufflaw - -	Warkworth Castle -	50 33 15 SE	118825 W	283342 N
Alnwick Moor -		34 36 52 NE		
Alnwick Moor - -	Bambrough Castle -	10 17 28 NE	138437 W	379661 N
Blackheddon - -		75 54 15 SE		
Alnwick Moor -	Embleton Church	44 22 55 NE	123515 W	338089 N
Blackheddon - -	Tower -	48 35 19 SE		
Alnwick Moor - -	Dunstanbrough Castle	53 47 43 NE	115157 W	336211 N
Blackheddon - -		51 17 8 SE		
Alnwick Moor -	Lighthouse on the West	18 18 14 NE	127096 W	382474 N
Blackheddon -	Staples - -	81 25 52 SE		
Alnwick Moor - -	Beadnell Spire -	28 40 54 NE	123487 W	360381 N
Blackheddon -		62 58 54 SE		
Alnwick Moor -	Windmill on Sunderland	25 7 40 NE	124008 W	367668 N
Blackheddon -	Point - -	68 36 9 SE		

Meridian of Delamere Forest.

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Cleeve - -	Glocester Cathedral -	70 7 32 SW	99194 E	494033 S
Malvern Hill -		13 49 16 SE		
Cleeve - -	Church Down Steeple -	63 52 15 SW	115937 E	492810 S
Malvern Hill -		24 1 28 SE		
Malvern Hill -	Cheltenham Steeple -	38 53 38 SE	137483 E	481327 S
May Hill - -		86 29 17 NE		
Malvern Hill -	Cleeve Steeple -	48 12 53 SE	141426 E	464240 S
May Hill - -		75 39 20 NW		
Malvern Hill -	Beckford Steeple -	66 12 17 SE	146216 E	437598 S
May Hill - -		61 54 55 NE		
Malvern Hill -	Prestbury Steeple -	43 57 59 SE	144484 E	476504 S
May Hill - -		83 42 6 NE		
Malvern Hill -	Tewkesbury Steeple -	44 12 55 SE	118307 E	448999 S
May Hill - -		59 31 18 NE		
Malvern Hill -	Breedon Spire -	61 56 56 SE	127783 E	434053 S
May Hill - -		54 21 58 NE		
Malvern Hill -	Ledbury Steeple -	36 14 11 SW	59726 E	432233 S
May Hill - -		5 17 10 NE		
Malvern Hill -	Pershore Steeple -	87 37 35 NE	136605 E	405043 S
May Hill - -		45 10 23 NE		
Trelleg Beacon -	Trelleg Steeple -	85 6 38 NW	8967 W	538657 S
Mynydd Mane -		71 44 58 NE		
Trelleg Beacon -	Lansdown Monument -	32 26 48 SE	69225 E	655857 S
Mynydd Mane -		59 47 55 SE		
Garth Hill - -	The highest part of Twymbarlum Mt.	56 20 52 NE	92711 W	581533 S
Mynydd Mane -		16 49 4 SW		
Garth Hill -	Llantrissant Steeple -	88 46 54 SW	157213 W	612421 S
Ogmoor Down -		62 49 19 NE		
Mynydd Mane -	Beacons of Brecknock	46 44 10 NW	169628 W	487370 S
Llangeinor Mountain		19 47 15 NE		
Mynydd Mane -	Pen-y-voel -	18 38 36 NE	58662 W	478848 S
Llangeinor Mountain		55 51 27 NE		
Llanelian, Denbighshire	St. Elmo Summer House	72 42 22 NE	150731 W	38453 N
Garreg Mountain -		54 36 33 NW		
Llanelian, Denbighshire	Llandonna Signal Staff	75 43 47 NW	314396 W	35886 N
Llanelian, Anglesea		48 24 43 SE		
East end of R. Base -	St. Asaph Cathedral -	30 51 47 SE	165530 W	13778 N
West end of R. Base -		65 21 45 SE		
East end of R. Base -	Rhuddlan Steeple -	19 59 43 SE	171485 W	26149 N
West end of R. Base -		85 57 39 SE		
East end of R. Base	Abergele Steeple -	89 26 59 SW	196418 W	24420 N
West end of R. Base -		1 29 25 SW		
East end of R. Base -	Cave Hill Signal Staff	87 43 58 SW	205826 W	23316 N
West end of R. Base -		64 13 29 SW		
Cyrn y Brain Mountain	Trinity Spire, Chester	48 15 37 NE	45830 W	11597 S
Long Mountain -		12 21 22 NE		

Names of Stations	intersected Objects.	Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Cyrn y Brain Mountain	Winwick Spire -	41 31 54 NE	19095 E	76307 N
Delamere Forest -		14 2 58 NE		
Cyrn y Brain Mountain	Neston Steeple -	15 4 17 NE	82859 W	24813 N
Garreg Mountain -		87 34 43 SE		
Garreg Mountain -	Bidston Lighthouse -	52 12 26 NE	84793 W	65637 N
Delamere Forest -		52 15 26 NW		
Garreg Mountain	St. Paul's, Liverpool	58 5 53 NE	67122 W	69015 N
Delamere Forest -		44 12 12 NW		
Heswell Hill -	Formby NW Landmark	1 21 17 NE	89140 W	117118 N
Billinge Beacon -		81 7 4 NW		
Heswell Hill -	Formby SE Landmark	6 8 39 NE	82865 W	116002 N
Billinge Beacon -		81 13 4 NW		
Heswell Hill -	Crosby Steeple -	16 6 57 NE	74261 W	98714 N
Billinge Beacon -		85 18 59 SW		
Heswell Hill - -	Helbre Lighthouse -	39 2 46 NW	108440 W	62557 N
Billinge Beacon -		67 42 27 SW		
Heswell Hill -	Bebbington Spire -	76 25 1 NE	69440 W	46178 N
Billinge Beacon -		47 11 21 SW		
Heswell Hill -	Point of Air Lighthouse	79 24 24 NW	139006 W	49972 N
Billinge Beacon -		67 41 16 SW		
Heswell Hill - -	Sephton Spire -	24 46 4 NE	62188 W	103302 N
Billinge Beacon -		89 1 36 SW		
Heswell Hill -	Wavertree Steeple	61 26 28 NE	50264 W	63123 N
Billinge Beacon -		46 36 51 SW		
Heswell Hill - -	Leasowes Lighthouse -	9 48 16 NW	95984 W	70160 N
Billinge Beacon -		69 5 45 SW		
Garreg Mountain -	Eastham Spire -	85 0 15 NE	60332 W	33495 N
Heswell Hill - -		76 15 22 SE		
Heswell Hill - -	Prescot Spire -	61 55 27 NE	26334 W	75445 N
Belle-field Hill -		60 58 33 NW		
Heswell Hill -	Everton Flagstaff -	40 55 22 NE	62160 W	74182 N
Belle field Hill -		72 59 9 NW		
Billinge Beacon -	Warrington Steeple -	35 8 35 SE	23111 E	61814 N
Belle-field Hill -		1 19 57 NE		
Billinge Beacon -	St. Mary's Spire, Manchester - -	85 6 17 SE	95174 E	95514 N
Belle-field Hill -		56 49 15 NE		
Billinge Beacon -	Standish Spire -	22 22 6 NE	5226 E	133363 N
Belle-field Hill -		11 39 15 NW		
Billinge Beacon -	North Meals Spire -	43 33 19 NW	59966 W	160206 N
Go-Hill - -		17 36 28 NW		
Billinge Beacon -	Halsall Spire -	60 48 32 NW	57692 W	132851 N
Go-Hill - -		48 36 25 NW		
Billinge Beacon -	Blackrod Steeple -	41 37 56 NE	21637 E	136190 N
Go-Hill - -		80 42 17 NE		
Billinge Beacon -	Aughton Spire -	73 57 48 NW	50896 W	116931 N
Go-Hill - -		15 53 7 SW		
Wittle Hill -	Knoll Hill - -	39 48 25 SE	96570 E	155903 N
Billinge Beacon -		63 26 11 NE		
Boulsworth Hill -	Waller's Pleasure House	86 44 52 NW	66020 E	221105 N
Wittle Hill -		23 4 45 NW		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Knoll Hill -	Bennington Steeple -	16 22 14 SE	106705 E	121398 N
Wittle Hill -		20 55 29 SE		
Bar Beacon -	Walsall Steeple -	82 41 53 NW	136080 E	231212 S
Castle Ring -		32 31 52 SW		
Bar Beacon -	Wednesbury Spire -	74 59 51 SW	147948 E	242356 S
Castle Ring - -		17 12 18 SW		
Clay Hill - -	Shrewsbury New Ch.	22 50 28 NW	16230 W	187837 S
Ashley Heath -		47 14 0 SW		
Bar Beacon -	Wolverhampton Spire	87 1 43 NW	123950 E	233337 S
Castle Ring -		40 38 59 SW		
Llanelian, Denbighshire	Gwannysgaer Sig. Staff	72 13 15 NE	152705 W	38548 N
Garreg Mountain -		57 27 24 NW		
Llanelian, Denbighshire	Moel Fammau -	69 47 2 SE	125139 W	24065 S
Garreg Mountain -		10 30 34 SE		
Go-Hill - -	Ormskirk Spire -	65 10 48 NE	43945 W	126875 N
Beryl Hill -		18 26 23 SE		
Go-Hill -	Ashurst Beacon -	88 35 59 NE	15073 W	125502 N
Beryl Hill -		31 40 36 SE		
Beryl Hill -	North Station on the	89 2 38 SW	79865 W	225636 N
Ashurst Beacon -	Cliff near Blackpool	32 54 18 NW		
Beryl Hill -	Bispham Church Tower	9 22 34 NE	75838 W	232069 N
North Station -		32 2 41 NE		
Beryl Hill -	Landmark, Rossal Point	3 21 37 NW	78604 W	255262 N
Black Comb -		25 27 15 SE		
Beryl Hill - -	Poulton Church Tower	75 23 44 NE	66212 W	228474 N
Black Comb -		25 20 58 SE		
Black Comb -	Coniston Fell -	47 27 27 NE	92871 W	419726 N
Ingleborough Hill -		64 11 32 NW		
Black Comb -	Peel Castle -	24 30 59 SE	104753 W	307184 N
Ingleborough Hill -		77 12 15 SW		
Black Comb -	Lancaster Church Tower	55 41 44 SE	25786 W	302664 N
The Calf -		28 21 31 SW		
Black Comb -	Great Gavel -	16 22 16 NE	113428 W	460538 N
The Calf -		74 21 6 NW		
Black Comb -	The Pillar - -	7 5 27 NE	126554 W	466268 N
Dent Hill -		86 29 26 SE		
Black Comb -	Windmill near White-	27 48 33 NW	193132 W	484443 N
Dent Hill -	haven -	55 44 17 NW		
Dent Hill -	Red Pike - -	81 49 19 NE	127869 W	475068 N
Scilly Bank -		75 47 35 SE		
Dent Hill -	Grisdale Pike -	57 49 39 NE	122127 W	499324 N
Scilly Bank -		81 27 23 NE		
Dent Hill -	Workington Chapel	18 52 38 NW	187610 W	519287 N
Scilly Bank -		3 23 13 NW		
Dent Hill -	Lighthouse, Saturness	8 51 19 NW	191436 W	603982 N
Crif-Fell -	Point -	15 11 54 SE		
Scilly Bank -	Lighthouse, St. Bee's	43 55 16 SW	202062 W	472925 N
Crif-Fell -	Head - -	1 24 49 SW		
The Calf -	Pennigant Hill -	36 24 24 SE	93600 E	341351 N
Ingleborough -		83 30 13 SE		

Names of Stations	intersected Objects.	Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
The Calf - -	Kirkby Lonsdale,	16 35 36 SW		
Ingleborough -	Church Tower -	72 31 32 NW	18846 E	358472 N
The Calf - -	Whernside in Ingleton	25 1 16 SE		
Ingleborough -	Fells - -	2 51 10 NW	60567 E	367393 N
The Calf - -		23 36 33 NW		
Cross Fell -	Penrith Beacon -	79 19 20 SW	12292 W	530622 N
Cross Fell -		57 14 12 SW		
High Pike -	Bow Fell -	13 59 8 SW	102230 W	448018 N
Cross Fell -		88 17 0 SW		
High Pike - -	Carrock Fell -	59 49 0 SE	71283 W	537470 N
Cross Fell -		21 29 24 NW		
High Pike -	Cold Fell Pike -	53 43 34 NE	14638 E	610484 N
Cross Fell -		10 7 14 NW		
High Pike -	Daffenside Beacon -	69 25 59 NE	34287 E	584323 N
Cross Fell -		79 6 44 SW		
High Pike -	Saddle Back -	4 15 32 SE	77075 W	517954 N
Cross Fell -		26 33 34 SE		
Water Crag -	Nine Standards -	80 7 32 NW	87372 E	450200 N
Cross Fell -		51 15 5 NE		
Water Crag -	Kilhope Law -	15 39 23 NW	85468 E	575714 N
Crif-Fell - -		60 27 57 NE		
High Pike -	Carlaveroc Castle -	44 21 32 NW	176185 W	641404 N
Crif-Fell - -		78 15 33 NE		
High Pike - -	Annan Spire -	21 49 26 NW	120208 W	645137 N
Crif-Fell - -		27 20 39 NE		
Wisp Hill - -	Whin Fell -	66 35 48 NW	120192 W	779799 N
Collier Law -		35 41 34 NW		
High Pike -	Peel Fell Pile -	25 41 36 NE	19913 E	747159 N
Mordington Hill -		51 32 54 SE		
Blackheddon -	Low Building on the	82 47 8 SE	212890 E	876120 N
Mordington Hill -	Staples -	56 3 20 SE		
Blackheddon -	Lighthouse on the East	89 13 59 SE	219060 E	882440 N
Mordington Hill -	Staples -	47 20 0 SE		
Blackheddon -	Beacon Staff on Old	74 59 59 NE	184860 E	890925 N
Mordington Hill -	Law -	49 55 7 SE		
Blackheddon -	Holy Island Castle -	68 50 23 NE	185907 E	894730 N
Mordington Hill -		30 12 15 SE		
Blackheddon -	Kyloe Church Tower	16 40 37 NE	158325 E	889976 N
Mordington Hill -		18 5 31 SE		
Blackheddon -	Lowick Church Tower	69 34 42 NW	145139 E	887429 N
Mordington Hill -		27 0 31 SW		
Blackheddon -	Norham Castle -	56 57 24 NW	110312 E	913202 N
Mordington Hill -		57 17 47 SW		
Blackheddon -	Hume Castle -	85 28 1 NW	44423 E	892145 N
Mordington Hill -		78 22 23 SW		
Blackheddon -	Dunse Spire -	59 40 52 NW	70722 E	933332 N
Mordington Hill -		68 54 22 SW		
Blackheddon -	Blackadder Tower	52 22 23 NW	93157 E	931963 N
Sayrs Law - -		78 37 55 SE		
Blackheddon -	Berwick upon Tweed, Spire - -	18 19 27 NW	140540 E	930912 N

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Sayrs Law - -	Habchester Hill, Signal	85 43 57 SE		
Blackheddon -	Staff - -	27 3 15 NW	122424 E	949631 N
Sayrs Law - -	Elden Hills, highest	5 49 55 SW		
Mordington Hill -	Point - -	58 3 36 SW	671.1 W	861801 N
Sayrs Law - -	Hedghope Pile -	41 24 40 SE		
Mordington Hill -		1 21 7 SW	123518 E	822075 N
Sayrs Law -	West Lomond Top	41 6 8 NW		
Lumsdane Hill -		60 57 7 NW	124277 W	1104614 N
Sayrs Law - -	St. Monance Spire -	8 58 19 NW		
Lumsdane Hill -		47 4 34 NW	17367 W	1088591 N
Sayrs Law - -	Pittenweem Spire -	5 4 11 NW		
Lumsdane Hill -		44 11 22 NW	8583 W	1090973 N
Sayrs Law -	West Anstruther Spire	2 52 56 NW		
Lumsdane Hill -		41 41 33 NW	3732 W	1095578 N
Sayrs Law - -	East Anstruther Spire	2 34 58 NW		
Lnmsdane Hill -		41 19 58 NW	3045 W	1096257 N
Sayrs Law -	Kilrenny Spire -	1 22 11 NW		
Lumsdane Hill -		39 37 51 NW	215 W	1099989 N
Sayrs Law -	High Spire in Crail -	3 24 33 NE		
Lumsdane Hill -		33 39 56 NW	12209 E	1110310 N
Sayrs Law -	High Building, near	4 37 36 NE		
Lumsdane Hill -	Crail -	31 18 30 NW	15948 E	1116465 N
Sayrs Law -	Lighthouse on the Isle	10 36 8 NE		
Lumsdane Hill -	of May -	35 24 7 NW	26336 E	1082304 N
Sayrs Law -	Bas Rock -	4 10 26 NE		
Lumsdane Hill -		55 9 58 NW	9326 E	1042918 N
Sayrs Law -	Signal Staff on Norfh	6 52 12 NW		
Lumsdane Hill -	Berwick Law -	63 45 53 NW	5714 W	1032249 N
Sayrs Law -	Signal Staff on Dulau	71 37 26 NE		
Lumsdane Hill -		32 2 34 NW	93599 E	988571 N
Sayrs Law - -	Building on Hill, near	25 53 55 SW		
Wisp Hill - -	Stow - -	7 31 57 NE	44566 W	860237 N
Sayrs Law - -	Soutra Hill Pile -	89 55 45 NW		
Wisp Hill -		11 49 15 NE	15738 W	958557 N

Meridian of Moel Rhyddlad.

Margam Down -	St. Ann's Chapel, Lundy	54 21 18 SW		
Cefn Bryn -	Isle - -	37 47 51 SE	25338 W	808593 S
Margam Down -	Kilvey Windmill -	72 46 21 NW		
Cefn Bryn -		70 9 32 NE	143207 E	637943 S
Cefn Bryn	Penbree Steeple -	38 10 12 NW		
Marros Beacon -		75 10 28 SE	62192 W	616939 S
Cefn Bryn -	Tenby Spire -	75 21 36 NW		
Marros Beacon -		40 28 36 SW	34139 W	622876 S
Cefn Bryn -	Crunwell Steeple -	63 55 24 NW		
Marros Beacon -		86 18 9 SW	25529 W	598091 S

Names of Stations	Names of intersected Objects.	Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Cefn Bryn -	Marros Steeple -	59 17 50 NW	11233 W	594209 S
Lannon - -		89 41 28 SW		
Marros Beacon -	Kidwelly Spire -	88 28 20 SE	54908 E	599026 S
Lannon - -		81 16 24 SW		
Marros Beacon -	Woolhouse Caldy Isle	24 38 27 SW	30743 W	637538 S
Lannon -		70 0 23 SW		
Marros Beacon -	St. Ann's Lighthouse,	80 44 40 SW	142092 W	618390 S
Precelly Top -	Milford Haven -	43 37 25 SW		
Marros Beacon -	Warren Spire -	66 49 32 SW	100049 W	634818 S
Precelly Top -		23 40 38 SW		
Marros Beacon -	St. Petrox Steeple -	63 49 42 SW	87459 W	634190 S
Precelly Top -		18 9 58 SW		
Precelly Top -	Nipple Rock -	58 29 44 NW	79930 W	604860 S
Plumstone Down -		34 5 14 NE		
Plumstone Down -	Haverfordwest Spire	33 7 39 SE	95794 W	574820 S
Precelly Top -		40 44 45 SW		
Precelly Top -	Prandergest Steeple	40 22 47 SW	93808 W	573164 S
Plumstone Down -		38 22 20 SE		
Precelly Top -	Pencarn - -	70 44 30 NW	116723 W	499665 S
Plumstone Down -		6 4 17 NW		
Plumstone Down -	Roch Castle -	52 16 57 SW	119775 W	557733 S
Precelly Top -		63 1 58 SW		
Precelly Top -	Summer House in Lord	21 48 3 SW	74338 W	581352 S
Plumstone Down -	Milford's Park -	50 41 52 SE		
St. Ann's Hill -	Steinton Steeple -	69 3 11 NE	105970 W	601179 S
Precelly Top -		35 3 52 SW		
St. Ann's Hill -	Johnston Steeple -	60 40 10 NE	101584 W	592544 S
Precelly Top -		35 58 25 SW		
Plumstone Down -	St. Twinell's Steeple	11 26 32 SE	94409 W	634330 S
St. Ann's Hill -		66 32 51 SE		
Plumstone Down -	Grasholm Isle -	63 57 44 SW	210887 W	599817 S
St. Ann's Hill -		78 19 57 NW		
Plumstone Down -	Small's Light House	70 2 36 SW	254085 W	603000 S
St. Ann's Hill -		84 17 26 NW		
Plumstone Down -	St. Daniel's Spire -	20 20 35 SE	84046 W	624506 S
St. Ann's Hill -		79 48 23 SE		
St. Ann's Hill -	Hubberston Steeple	73 24 31 NE	114673 W	606696 S
Highgate Mountain		52 39 46 NW		
St. Ann's Hill -	Milford Steeple -	78 41 25 NE	108770 W	608038 S
Highgate Mountain		47 24 19 NW		
Plumstone Down -	Mote Steeple -	80 13 39 NE	60591 W	542414 S
Highgate Mountain		18 23 12 NE		
Plumstone Down -	Castel Baith Steeple	60 51 26 NE	74577 W	530692 S
Highgate Mountatn -		8 18 14 NE		
Precelly Top -	Maenclochog Steeple	14 19 31 SW	54058 W	535169 S
Highgate Mountain -		20 40 56 NE		
Rhiw Mountain -	Rivel Mountain -	39 34 15 NE	24725 E	147200 S
Moel Rhyddlad -		9 32 6 SE		
Llwydiart Mountain	Penmaen Mawr -	80 28 20 SE	131314 E	42702 S
Llanelian Mountain		56 30 17 SE		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Llwydiart Mountain Llanelian Mountain	Coedana Steeple -	74 45 14 NW 19 37 24 SW	43104 E	24199 S
Llwydiart Mountain Llanelian Mountain	Ynys Gadarn -	20 44 32 NW 64 51 41 SE	64274 E	3524 S
Llwydiart Mountain Llanelia Mountain	Ynys traeth Bychan	16 46 31 NW 45 53 45 SE	70409 E	7256 S
Llanelian Mountain Moel Rhyddlad -	Skerry Light house	83 35 44 NW 39 42 8 NW	12993 W	15649 N
Llanelian Mountain Moel Rhyddlad -	Amlwch Steeple	53 25 15 SW 87 59 54 NE	45907 E	1604 N
Llanelian Mountain Moel Rhyddlad -	West Mouse -	83 39 1 NW 5 8 43 NW	1286 W	14281 N
Moel Rhyddlad - Llanelian Mountain	Llanelian Spire -	77 27 55 NE 17 4 7 NW	53435 E	11880 N
Llanelian Mountain Moel Rhyddlad -	Point Elianus Signal Staff - -	18 54 28 NE 76 9 8 NE	56628 E	13960 N

ART. IV. *Bearings and Distances of several Church Steeples, and other Objects of Note, in the Fourth Section of the present Work, from the Parallels and Perpendiculars to their respective Meridians.*

Meridian of Moel Rhyddlad.

New Inn Hill - Precelly Top - Capel Kynon -	Brenin Fawr -	89 3 59 NW 68 57 53 NE 47 33 59 SW	15604 W	509105 S
Precelly Top - Brenin Fawr -	Ferwig Steeple -	23 49 55 NE 9 39 5 NW	23741 W	461253 S
Precelly Top - Brenin Fawr -	Barrow near Pantseison	15 56 25 NE 32 1 35 NW	37154 W	474652 S
Brenin Fawr - Barrow near Pantseison	Cardigan Island, highest Point -	17 8 35 NW 14 13 25 NE	32227 W	455210 S
Brenin Fawr - Barrow near Pantseison	Llanfihangel Penbedw Steeple -	4 50 55 NE 49 34 35 SE	14330 W	494093 S
Precelly Top - Brenin Fawr -	Warren Bank -	31 55 25 NE 1 27 5 NW	16650 W	467746 S
Brenin Fawr - Warren Bank -	Cardigan Steeple	13 21 35 NW 55 46 25 SW	24203 W	472883 S
Plumstone Down - St. Ann's Hill -	Penberry Rock -	68 37 31 NW 12 10 3 NW	158004 W	532839 S
St. Ann's Hill - Penberry Rock -	Llaeithty Rock -	19 6 51 NW 65 7 8 SW	167200 W	537105 S

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Penberry Rock -	St. David's Cathedral	19 36 38 SW	162471 W	545378 S
Llaeithty Rock -		29 45 22 SE		
Penberry Rock -	Bishop and his Clerks	81 15 53 SW	189168 W	537627 S
St. David's Cathedral	highest point of N. Isl.	73 48 37 NW		
Plumstone Down -	Ramsey Island, highest	88 53 0 SW	180391 W	552486 S
St. Ann's Hill -	point -	32 51 22 NW		
New Inn Hill -	Llangynog Mountain	35 59 50 SW	31920 E	569862 S
Precelly Top -		60 19 8 SE		
Marros Beacon -	Ludchurch Steeple -	67 11 24 NW	33106 W	588464 S
Highgate Mountain		55 29 11 NE		
Marros Beacon -	Worms Head, West	43 37 33 SE	49160 E	661669 S
Lannon -	Point -	30 53 26 SW		
Worms Head -	Laugharne Steeple	21 6 19 NW	19500 E	584824 S
Llangynog Mountain	Llansaint Hill, Barrow	44 43 25 SE	53681 E	591834 S
New Inn Hill -		14 41 32 SW		
Llangynog Mountain	Llanstephan Castle	11 31 55 SE	35754 E	588622 S
Llansaint Hill -		79 51 58 NW		
Llansaint Hill -	Mancha Hill -	58 51 8 NE	78403 E	576877 S
Llangynog Mountain		81 25 37 SE		
Mancha Hill	Carmarthen (House at	55 23 49 NW	49356 E	556836 S
Llangynog Mountain	west end) -	53 13 16 NE		
Brenin Fawr -	Moelfre Barrow -	82 26 7 NE	24613 E	503762 S
Capel Kynon -		17 26 7 SW		
Moelfre Barrow -	Bettws Einon -	13 50 26 NW	15312 E	466020 S
Capel Kynon -		74 41 7 SW		
Capel Kynon -	Penboir Church -	3 37 0 SW	35733 E	502753 S
Moelfre Barrow -		84 51 47 NE		
New Inn Hill -	Crug Edrid -	40 48 54 NE	92661 E	490111 S
Capel Kynon -		60 41 21 SE		
Crug Edrid -	Llanwenog Steeple	36 29 14 NW	78454 E	470902 S
New Inn Hill -		4 59 46 NE		
Crug Edrid -	Brechva Mountain	14 14 21 SW	83387 E	526659 S
New Inn Hill -		27 35 19 SE		
Crug Edrid -	Dinas Rock -	70 2 20 SE	123655 E	501370 S
Brechva Mountain		57 52 18 NE		
Margam Down -	Trecastle Beacon, New	1 6 59 NW	189549 E	544058 S
Kilvey Windmill -	Station -	26 16 17 NE		
Kilvey Windmill	Carreg Glwydd -	13 40 9 NE	162514 E	558560 S
Margam Down -		17 9 48 NW		
Margam Down -	Mumbles Lighthouse	82 45 18 SW	131387 E	660632 S
Kilvey Windmil -		27 31 1 SW		
Kilvey Windmill -	Swansea Castle -	59 14 27 SW	138006 E	641038 S
Margam Down -		77 27 51 NW		
Carreg Glwydd -	Trechrig Mountain	40 47 43 NW	148610 E	542442 S
Trecastle Beacon -		87 43 51 NW		
Trechrig Mountain	St. Mary on the Hill,	27 54 39 NE	170153 E	501770 S
Trecastle Beacon -	Llandovery -	24 38 21 NW		
Cefn Bryn -	Llanelly Steeple -	7 33 38 NW	87932 E	618250 S
Penbree Steeple -		87 5 59 SE		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Cefn Bryn -	Rosilly Barrow -	87 21 22 SW	60877 E	657535 S
Llanelly Steeple -		34 34 48 SW		
Carreg Glwydd -	Lannon Steeple -	62 47 14 SW	97755 E	591864 S
Margam Down -		56 57 6 NW		
Kilvey Windmill -	Tre Carn Issa -	0 43 16 NE	144152 E	562872 S
Margam Down -		27 48 29 NW		
Trechrig Mountain	Great Mountain -	57 3 4 SW	110044 E	567433 S
Tre Carn Issa -		82 22 47 SW		
Trechrig Mountain	Taliaris Pigeon House	51 29 26 NW	129922 E	527578 S
Great Mountain -		26 30 4 NE		
Trechrig Mountain	Llandilo Steeple -	81 53 30 SW	125565 E	545725 S
Taliaris Pigeon House		13 30 30 SW		
Great Mountain -	Llangadock Steeple	42 57 23 NE	150069 E	524452 S
Trechrig Mountain -		4 39 4 NE		
Great Mountain -	Nelson's Tower -	50 58 33 NW	96970 E	556830 S
Trechrig Mountain		74 25 49 SW		

Meridian of Delamere Forest.

Llangeinor Mountain	Margam Down -	57 10 43 SW	231901 W	595318 S
Ogmoor Down -		27 13 55 NW		
Ogmoor Down -	St. Mary Hill Steeple	60 41 36 NE	186148 W	626167 S
Margam Down -		56 0 51 SE		
Ogmoor Down -	Signal Staff, Newton	42 58 52 NW	224143 W	623282 S
Margam Down -	Down -	15 30 18 SE		
Garth Hill -	Carn Vawr -	59 10 47 NW	188387 W	582274 S
Ogmoor Down -		20 12 12 NE		
Garth Hill -	Signal Staff, Stalling	42 16 52 SW	167357 W	643750 S
Ogmoor Down -	Downs -	83 47 10 SE		
Garth Hill -	St. Hilary Steeple	39 55 53 SW	166836 W	645865 S
Ogmoor Down -		81 3 9 SE		
Newton Down -	Kenfig Steeple -	65 47 48 NW	235819 W	618034 S
Margam Down -		9 47 19 SW		
Ogmoor Down -	Bridgend Steeple -	18 22 36 NE	204292 W	624023 S
St. Mary Hill Steeple		83 15 54 NW		
Ogmoor Down -	Llaleston Steeple -	14 52 36 NW	213173 W	624694 S
Bridgend Steeple		85 41 58 SW		

Meridian of Black Down.

Brent Knoll -	Bridgewater Spire -	16 46 1 SW	104718 W	161282 N
Bagborough -		81 37 56 NE		
Brent Knoll -	Huntspill Steeple -	32 58 49 SW	102600 W	189170 N
Bridgewater Spire		4 20 28 NE		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Bridgewater Spire -	Cannington -	56 15 58 NW	121662 W	172589 N
Bagborough -		56 7 23 NE		
Bridgewater Spire	Staple Hill -	15 18 34 SW	122980 W	94570 N
Bagborough -		22 30 10 SE		
Bridgewater Spire	Castlineroach -	6 41 45 SW	112862 W	91913 N
Staple Hill -		75 17 1 SE		
Bagborough -	Sampford -	15 8 19 SW	164262 W	94763 N
Brompton Ralph -		14 46 15 SE		
Haddon Beacon -	Newts Down -	4 0 48 SE	210748 W	75923 N
Bagborough -		38 27 50 SW		
Haddon Beacon -	Christ Cross -	0 52 27 SE	213587 W	56380 N
Newts Down -		8 15 40 SW		
Christ Cross -	Whitestone Station	42 25 44 SW	245402 W	21578 N
Newts Down -		32 31 31 SW		
Christ Cross -	Kentisbeare -	73 2 25 NE	170136 W	69597 N
Sampford -		13 8 22 SW		
Bagborough -	Dumpdon -	2 20 6 SE	143810 W	52733 N
Staple Hill -		26 28 23 SW		
Castlineroach -	Yartcombe -	25 36 18 SW	124299 W	68046 N
Staple Hill -		2 50 41 SW		
Dumpdon -	Harner Hill -	75 17 18 SE	119142 W	46252 N
Yartcombe -		13 18 1 SE		
Dumpdon - -	Combe Rawleigh -	75 15 54 SW	153993 W	50053 N
Harner Hill -		83 46 39 NW		
Sampford -	Gaddon Hill -	37 36 28 SW	179103 W	75496 N
Kentisbeare -		56 39 13 NW		
Sampford -	Culmstock -	14 10 57 SW	165710 W	89032 N
Gaddon Hill -		44 41 47 NE		
Christ Cross -	Obelisk, Haldon -	8 25 29 SW	225496 W	24031 S
Whitestone -		23 34 48 SE		
Obelisk -	Haldon, Old Station	41 54 6 NW	238636 W	9386 S
Whitestone -		12 19 36 SE		
Haldon Old Station	Haldon, New Station	57 45 18 SE	230291 W	14650 S
Whitestone -		22 38 32 SE		
Haldon New Station	Exeter Cathedral -	6 8 42 NE	227130 W	14710 N
Whitestone -		69 24 33 SE		
Sampford -	Wherry Farm -	10 28 39 SW	170142 W	62966 N
Kentisbeare -		0 2 54 SW		
Sampford -	Upcot Pen -	8 18 14 SW	169178 W	61083 N
Wherry Farm -		27 8 8 SE		
Sampford -	Woolford Lodge -	12 7 23 SE	154194 W	47911 N
Upcot Pen -		48 40 30 SE		
Woolford Lodge -	Hembury Fort -	83 4 29 NW	164701 W	49190 N
Upcot Pen -		20 36 52 SE		
Hembury Fort -	North Ottery Moor	16 19 39 SE	158644 W	28522 N
Woolford Lodge -		12 55 36 SW		
Hembury Fort -	South Ottery Moor	0 48 37 SE	165248 W	10354 N
North Ottery Moor		19 58 29 SW		
South Ottery Moor	West Ottery Moor	55 6 31 NW	181493 W	21684 N
North Ottery Moor		73 20 15 SW		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
			Feet.	Feet.
Huntspill Steeple -	Berrow Steeple -	9 15 11 NW	106334 W	212082 N
Brent Knoll -		72 39 11 NW		
Huntspill Steeple -	Burnham Steeple -	0 59 11 NW	102823 W	202085 N
Brent Knoll -		66 37 49 SW		
Huntspill Steeple -	Mark Steeple -	72 24 49 NE	77710 W	197059 N
Brent Knoll -		52 14 11 SE		
Huntspill Steeple	Woolavington Steeple	48 54 11 SE	883329 W	176721 N
Brent Knoll -		4 45 11 SE		
Huntspill Steeple -	North Petherton Steeple	6 13 15 SW	107056 W	148284 N
Cannington -		30 59 45 SE		
North Petherton Steeple	Weston in Zoyland Steeple -	73 30 15 NE	86952 W	154238 N
Cannington -		62 7 45 SE		
North Petherton Steeple	Burrow Mount Chapel	70 30 45 SE	84424 W	140274 N
Cannington -		49 2 45 SE		
Huntspill Steeple -	Enmore Steeple -	31 52 15 SW	123651 W	155311 N
Cannington -		6 34 15 SW		
Brompton Ralph -	Black Hill - -	56 48 27 NW	206783 W	168592 N
Haddon Beacon -		12 38 33 NE		
Black Hill -	Lype Hill -	56 54 33 SW	218634 W	160869 N
Haddon Beacon -		7 54 27 NW		
Black Hill -	Grabbist Hill -	39 11 57 NW	219508 W	184192 N
Lype Hill -		2 8 27 NW		
Black Hill -	St. Decuman's Steeple	66 51 33 NE	181189 W	179531 N
Grabbist Hill -		83 3 57 SE		
Black Hill -	Minehead Steeple	15 35 57 NW	213508 W	192666 N
Grabbist Hill -		35 18 3 NE		
Grabbist Hill -	Cutcombe Steeple -	18 43 33 SW	225672 W	167783 N
Lype Hill -		42 56 27 NW		
Haddon Hill -	Heydon Hill -	86 48 45 SE	190325 W	131649 N
Brompton Ralph -		31 19 5 SW		
Heydon Hill -	Bampton -	40 49 15 SW	206806 W	112570 N
Haddon Beacon -		21 15 45 SE		
Bampton -	Honiton Down -	80 52 45 SE	189659 W	109818 N
Haddon Beacon -		47 15 45 SE		
Bampton -	Bampton Tree -	78 34 45 NW	221006 W	115440 N
Haddon Beacon -		19 35 5 SW		
Bampton Tree -	West Anstey -	56 13 55 NW	247601 W	133224 N
Haddon Beacon -		89 37 55 NW		
Bampton Tree -	Dulverton Station -	36 6 55 NW	231460 W	129772 N
Haddon Beacon -		79 1 5 SW		
Heydon Hill -	Brompton Regis -	68 48 45 NW	218174 W	142445 N
Haddon Beacon -		19 53 45 NW		
Bampton -	Morebath Steeple -	49 32 45 NW	217030 W	121288 N
Honiton Down -		67 15 45 NW		
Dulverton Station -	Dulverton Steeple -	60 18 9 SW	232985 W	128904 N
Bampton Tree -		41 39 55 NW		
Sampford -	Holcombe Rogus -	69 51 14 NW	183365 W	101771 N
Culmstock -		54 11 13 NW		
Culmstock -	Uffculme Steeple -	59 33 21 SW	180941 W	80080 N
Gaddon Hill -		21 49 55 NW		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Bagborough - Staple Hill -	Wellington Steeple	9 29 1 SW 67 31 32 NW	155796 W	108143 N
Bagborough - Staple Hill -	St. Mary's, Taunton	31 20 35 SE 8 51 49 NW	127025 W	120511 N
Staple Hill - Bagborough -	Cothelstone Lodge -	17 56 47 NW 45 10 47 SE	139939 W	146927 N
Staple Hill - Bagborough -	Lady Chatham's Obelisk	57 44 27 NE 65 8 23 SE	78423 W	122690 N
Brompton Ralph - Bagborough -	Bishop's Lydiard -	67 41 44 SE 2 53 5 SE	147093 W	137297 N
Brompton Ralph - Bagborough -	Wiveliscombe Steeple	10 59 58 SE 47 35 5 SW	175011 W	130234 N
Wellington Steeple - Staple Hill -	Milverton Steeple -	21 28 32 NW 52 45 32 NW	162178 W	124366 N
Bagborough - Brompton Ralph -	Combe Florey Steeple	20 20 55 SW 70 10 54 SE	153120 W	141070 N
Wellington Steeple - Milverton Steeple -	Norton Fitzwarren -	47 25 28 NE 88 53 28 NE	137623 W	124839 N
Wellington Steeple - Milverton Steeple -	Langford Budville	12 41 28 NE 61 13 32 SE	153247 W	119460 N
Wellington Steeple Milverton Steeple -	Buckland Steeple -	82 48 32 SE 44 9 32 SE	145118 W	106794 N
Wellington Steeple - Milverton Steeple -	Hill Farence -	35 2 28 NE 75 16 32 SE	17184 W	120424 N
Castlineroach - Staple Hill -	Fivehead Steeple -	48 46 43 NE 60 20 18 NE	85394 W	115977 N
Castlineroach - Staple Hill -	Curry Mallet Steeple	50 39 32 NE 65 15 42 NE	92465 W	108631 N
Castlineroach - Staple Hill -	West Hatch Steeple	14 51 32 NE 45 39 3 NE	108366 W	108857 N
Castlineroach - Staple Hill -	Ilton Steeple -	78 37 59 NE 85 50 59 NE	86456 W	97221 N
Castlineroach - Staple Hill -	Thorne Falcon Steeple	8 6 59 NE 30 18 59 NE	109096 W	118316 N
Culmstock - Kentesbeer -	Columpton Steeple -	47 40 34 SW 74 30 41 SW	194455 W	62856 N
Hembury Fort - North Ottery Moor	St. Mary Ottery Steeple	10 7 52 SW 71 0 6 SW	169032 W	24946 N
Hembury Fort - North Ottery Moor -	Bradninch Steeple -	84 26 35 NW 60 38 5 NW	201791 W	52798 N
North Ottery Moor Hembury Fort -	Honiton Chapel -	38 45 5 NE 67 2 24 SE	147802 W	42032 N
Dumpdon - Harner Hill -	Widworthy -	37 19 18 SE 47 25 42 SW	130745 W	35592 N
Widworthy - Harner Hill -	Hawk Church -	82 4 42 NE 80 54 18 SE	88906 W	41412 N
Widworthy - Harner Hill -	Beer Signal Staff -	2 32 18 SE 12 30 42 SW	129208 W	884 N
Christcross - Whitestone -	Newton St. Cyrus Steeple -	48 50 58 SW 22 3 36 NE	241008 W	32417 N

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Christcross -	Gernseys Gazebo -	72 40 24 NE	168586 W	70421 N
Whitestone -		57 32 54 NE		
Christcross -	Woodbury Signal Staff	18 16 29 SE	185977 W	22578 S
Whitestone -		53 23 3 SE		
Black Down -	Ninebarrow Down -	81 27 12 SE	125374 E	18843 S
Bullbarrow -		42 28 53 NW		
Ninebarrow Down	Wingreen -	10 31 28 NW	101588 E	109190 N
Bullbarrow -		43 58 8 NE		
Wingreen - -	Trinity Steeple, Shaftsbury -	70 19 50 NW	80662 E	116684 N
Bullbarrow -		25 15 10 SW		
Wingreen -	Duncliffe Hill -	79 16 50 NW	69067 E	115347 N
Bullbarrow -		15 26 10 NE		
Wingreen -	Melbury Hill -	79 27 10 SW	84606 E	106030 N
Bulbarrow -		33 38 10 NE		
Wingreen -	Badbury Rings -	12 56 50 SE	114868 E	51400 N
Bullbarrow -		82 28 50 SE		
Wingreen -	Ringwood Steeple -	55 40 0 SE	174246 E	59564 N
Bullbarrow -		89 57 50 NE		
Wingreen -	Horton Gazebo -	37 36 0 SE	136518 E	63832 N
Bullbarrow -		87 0 0 NE		
Wingreen -	Bellchalwell Telegraph	45 9 10 SW	60882 E	68700 N
Trinity Steeple -		22 21 40 SW		
Wingreen -	Hamilton Hill -	46 8 40 SW	74932 E	83578 N
Trinity Steeple -		9 45 10 SW		
Wingreen -	West Knoyle Steeple	28 52 50 NW	79833 E	148630 N
Trinity Steeple -		1 24 50 NW		
Wingreen -	Kingsettles -	50 24 50 NW	82259 E	125172 N
Trinity Steeple -		10 55 10 NE		
Wingreen -	Pen Selwood Steeple -	57 54 10 NW	45897 E	144118 N
Bradley Knoll -		25 11 50 SW		
Wingreen -	Alfred's Tower -	51 32 10 NW	42303 E	156283 N
Bradley Knoll -		57 43 50 SW		
Wingreen -	Fonthill Abbey -	4 5 10 NW	99165 E	143074 N
Bradley Knoll -		63 40 10 SE		
Wingreen -	Blandford Telegraph	0 31 10 SW	101250 E	71876 N
Bellchalwell Telegraph		85 30 10 NE		
Trinity Steeple -	Gillingham Steeple	57 4 50 NW	62478 E	128431 N
Bullbarrow -		7 18 10 NE		
Horton Gazebo -	Pistle Down Telegraph	54 50 0 NE	156801 E	78122 N
Wingreen -		60 38 0 SE		
Wingreen -	Chalbury Telegraph	34 23 20 SE	132225 E	64426 N
Badbury Rings -		53 5 50 NE		
Badbury Rings -	Wimborne Steeple -	55 58 10 SE	129557 E	41485 N
Chalbury Telegraph		6 37 50 SW		
Wingreen -	Pentridge Hill -	73 13 0 SE	139181 E	97852 N
Pistle Down Telegraph		41 46 0 NE		
Trinity Steeple -	Sturminster Steeple	38 43 10 SW	56763 E	86923 N
Bullbarrow -		6 29 10 NE		
Wingreen -	Caishmoor Mill -	40 41 0 SE	110781 E	86862 N
Pentridge Hill -		59 9 0 SW		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Wingreen -	Cranborne Steeple	60 36 0 SE	144148 E	85209 N
Pentridge Hill -		21 27 0 SE		
Wingreen -	Wardour Castle -	2 13 10 NE	102387 E	129830 N
Kingsettles -		76 58 10 NE		
Trinity Steeple -	Mere Steeple -	28 50 50 NW	63876 E	147085 N
Gillingham Steeple		4 17 10 NE		
Trinity Steeple -	Hinton Steeple, *Dorset*	46 55 10 SW	56316 E	93954 N
Sturminster Steeple		3 37 50 NW		
Trinity Steeple -	Iwerne Minster -	5 3 50 SE	83088 E	88846 N
Hinton Steeple -		79 11 50 SE		
Wingreen -	Christ Church -	40 17 20 SE	179351 E	17461 N
Ninebarrow Down -		56 4 30 NE		
Ninebarrow Down -	Poole Steeple -	8 19 40 NE	129630 E	10246 N
Christ Church -		81 44 30 SW		
Black Down -	Wareham Steeple -	89 34 50 SE	102508 E	750 S
Ninebarrow Down -		51 38 50 NW		
Christ Church -	Brownsea Castle -	68 53 30 SW	137005 E	1120 N
Ninebarrow Down -		30 14 0 NE		
Christ Church -	Poole Heath -	83 8 0 SW	142022 E	12966 N
Brownsea Castle -		22 58 30 NE		
Christ Church -	Stutland Signal Staff	45 34 0 SW	141641 E	19512 S
Poole Heath -		0 40 0 SW		
Black Down -	Wyke Regis Steeple -	26 57 30 SE	16321 E	32088 S
Ninebarrow Down -		83 4 30 SW		
Black Down -	Dorchester Steeple -	67 57 10 NE	25974 E	10521 N
Ninebarrow Down -		73 32 30 NW		
Black Down -	Ridgeway Station -	74 35 50 SE	21890 E	6030 S
Dorchester Steeple -		13 51 40 SW		
Black Down -	Portland Lighthouse	19 38 50 SE	21563 E	60396 S
Ridgeway Station -		0 20 40 SW		
Ridgeway Station -	Lulworth Flagstaff -	63 59 0 SE	53951 E	21677 S
Dorchester Steeple		40 59 20 SE		
Black Down -	Godmanstone Down -	23 36 40 NE	12410 E	28391 N
Dorchester Steeple		37 11 50 NW		
Black Down -	Aggerdon Hill -	45 23 20 NW	21314 W	21027 N
Godmanstone Down		77 41 10 SW		
Black Down -	Abbotsbury Signal Staff	75 23 40 SW	17569 W	4578 S
Aggerdon Hill -		8 19 20 SW		
Abbotsbury, Staff -	Shipton Beacon -	42 8 20 NW	35022 W	14711 N
Aggerdon Hill -		65 15 40 SW		
Shipton Beacon -	Puncknoll -	33 2 20 SE	25740 W	437 N
Aggerdon Hill -		12 7 40 SW		
Bullbarrow -	Wincanton Steeple -	16 42 50 SW	31148 E	134392 N
Duncliffe Hill -		63 19 50 NW		
Trinity Steeple -	Henstridge Steeple -	76 30 10 SW	35240 E	105791 N
Hinton Steeple -		60 40 50 NW		
Pilsdon Hill -	Montacute's Signal Staff	26 21 40 NE	39912 W	96134 N
Mintern - -		53 40 20 NW		
Pilsdon Hill - -	Pen Hill - -	52 43 40 NE	32182 W	69515 N
Montacute's Signal Staff		16 11 20 SE		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Pilsdon Hill -	Barrow Hill -	0 11 20 NW	65980 W	106259 N
Montacute's Staff -		68 47 20 NW		
Barrow Hill -	South Petherton -	29 15 20 SE	59846 W	95283 N
Montacute's Staff -		87 32 40 SW		
Mintern -	Newton Summer House	41 0 20 NW	17204 W	91144 N
Ash Beacon -		40 39 40 SW		
Mintern -	Glastonbury Tor -	22 40 20 NW	34311 W	167168 N
Ash Beacon -		38 48 50 NW		
Barrow Hill -	Ilchester Steeple -	74 2 10 NE	30275 W	116472 N
Montacute's Staff -		25 21 40 NE		
Pilsdon Hill -	Warren Signal Staff -	4 56 20 NW	68317 W	73365 N
Pen Hill -		83 55 20 NW		
Newton Summer House	Leweston Hill -	68 32 20 SE	1788 E	83677 N
Ash Beacon -		6 18 40 SW		
Leweston Hill -	Yetminster Steeple -	46 17 40 SW	6690 W	75572 N
Newton Summer House		34 1 20 SE		
Yetminster Steeple	Sherborne Steeple -	36 22 40 NE	7480 E	94808 N
Leweston Hill -		27 4 40 NE		
Newton Summer House	Yeovil Steeple -	43 22 20 NW	19208 W	93266 N
Leweston Hill -		65 27 20 NW		
Pilsdon Hill -	Broad Windsor -	57 31 40 NE	57945 W	48937 N
Warren Signal Staff -		23 0 20 SE		
Pilsdon Hill -	Winyard's Gap -	60 16 40 NE	39825 W	58769 N
Warren Signal Staff -		62 52 20 SE		
Winyard's Gap -	Crewkerne Steeple -	52 34 20 NW	57554 W	72337 N
Warren Signal Staff -		84 32 20 SE		
Beacon Hill -	Clay Hill Barrow -	86 56 50 NW	72590 W	188636 N
Bradley Knoll -		35 23 10 NE		
Bradley Knoll -	Milk Hill -	49 59 20 NE	159541 E	251938 N
Beacon Hill -		23 25 0 NW		
Bradley Knoll -	Frome Spire -	5 22 50 NW	52390 E	198267 N
Clay Hill Barrow -		64 29 50 NW		
Bradley Knoll -	Whatley Spire -	28 1 50 NW	38243 E	197178 N
Clay Hill Barrow -		76 1 50 NW		
Bradley Knoll -	Leigh Steeple -	44 35 50 NW	24550 E	196094 N
Clay Hill -		81 10 50 NW		
Bradley Knoll -	Buckland Steeple -	13 17 50 NW	45011 E	209279 N
Clay Hill -		53 10 50 NW		
Milk Hill -	Red Horn Clump -	23 58 0 SW	146689 E	223025 N
Beacon Hill -		46 36 0 NW		
Milk Hill -	Pewsey Steeple -	55 26 0 SE	178920 E	238582 N
Red Horn, Clump -		64 14 0 NE		
Milk Hill -	Devizes Steeple -	75 58 0 SW	127153 E	243841 N
Red Horn Clump -		43 11 0 NW		
Red Horn Clump -	Chittern Windmill -	30 22 0 SW	125890 E	187518 N
Beacon Hill -		85 24 0 NW		
Clay Hill -	Steeple Ashton -	28 39 10 NE	94569 E	228840 N
Milk Hill -		70 25 30 SW		
Steeple Ashton -	Seend Steeple -	44 9 30 NE	106641 E	241262 N
Milk Hill -		78 35 10 SW		

Names of Stations	Intersected Objects.	Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Steeple Ashton -	Hinton Steeple, *Somerset* -	85 9 50 NW	51932 E	232449 N
Clay Hill -		25 14 50 NW		
Bradley Knoll -	White Horse New Station -	38 42 0 NE	92271 E	210468 N
Beacon Hill -		73 55 0 NW		
White Horse -	Trowbridge Spire -	33 42 0 NW	78090 E	231726 N
Bradley Knoll -		18 34 0 NE		
White Horse -	Farley Clump -	36 1 0 NW	58846 E	256439 N
Bradley Knoll -		2 3 0 NE		
Farley Clump -	Melksham Steeple	80 12 0 SE	93232 E	250499 N
White Horse -		1 23 0 NE		

Meridian of Butterton Hill.

Butterton Hill -	Rippon Tor New Station	26 51 33 SE	28516 E	56308 N
Rippon Tor Old Station		17 25 37 NW		
Rippon Tor New Station	Horner Down -	5 56 3 SE	35873 E	14467 S
Butterton Hill -		68 2 13 SE		
Horner Down -	Denbury -	18 30 37 NE	52015 E	33753 N
Rippon Tor -		46 10 18 SE		
Horner Down -	Church Stow -	31 3 17 SW	19746 E	41255 S
Butterton Hill -		25 34 23 SE		
Horner Down -	Morleigh Camp -	30 25 38 SE	40145 E	21745 S
Butterton Hill -		61 33 38 SE		
Rippon Tor -	Totness Steeple -	21 40 18 SE	47998 E	7280 N
Denbury -		8 37 42 SW		
Totness Steeple -	Marldon Beacon -	73 18 2 NE	66332 E	12780 N
Denbury -		34 19 18 SE		
Totness Steeple -	Willman Hill -	79 48 58 SE	64899 E	4244 N
Marldon Beacon -		9 31 32 SW		
Horner Down -	Higher East Close -	81 5 53 SE	61180 E	18433 S
Rippon Tor -		23 36 23 SE		
Horner Down -	Bigbury Spire -	51 10 57 SW	5080 E	39242 S
Butterton Hill -		7 22 43 SE		
Horner Down -	Marlborough Spire	20 27 18 SW	18404 E	61298 S
Butterton Hill -		16 42 32 SE		
Marlborough Spire	Portlemouth -	72 25 26 SE	32292 E	65685 S
Church Stow -		27 11 26 SE		
Butterton Hill -		26 11 8 SE		
Butterton Hill -	Kingston Steeple -	9 5 7 SW	5713 E	35723 S
Bigbury -		71 57 3 NW		
Portlemouth -	Charleton Steeple -	0 13 34 NE	32347 E	51712 S
Church Stow -		50 19 16 SE		
Church Stow -	Buckland Tout Saints	86 22 44 SE	34418 E	40326 S
Portlemouth -		4 46 54 NE		

Names of Stations	and intersected Objects.	Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Portlemouth -	Marlborough Station	67 26 26 NW	14844 E	58435 S
Church Stow -		15 55 24 SW		
Marlborough Station	West Allington Steeple	39 28 4 SE	23639 E	47752 S
Portlemouth -		25 46 16 NW		
Portlemouth -	South Pool Station -	63 21 44 NE	42984 W	60325 S
Church Stow -		50 37 36 SE		
South Pool Station -	Chivelstone Station -	6 36 36 SE	43339 E	63392 S
Portlemouth -		78 16 24 NE		
Chivelstone Station -	Salcombe Chapel -	89 43 26 SW	29525 E	63325 S
Portlemouth -		49 34 36 NW		
Morleigh Camp -	Wallaton Cross -	20 32 0 SE	44095 E	32290 S
Higher East Close -		51 3 40 SW		
Wallaton Cross -	Black Auton -	34 0 50 NE	49674 E	24024 S
Morleigh Camp -		76 32 50 SE		
Butterton Hill -	Holland Hill -	26 24 8 SW	8104 W	16330 S
Hemerdon Ball -		54 3 52 SE		
Holland Hill -	Modbury Spire -	51 35 52 SE	762 E	23353 S
Butterton Hill -		1 52 6 SE		
Holland Hill -	Ugborough Spire -	66 5 8 NE	7471 E	9419 S
Butterton Hill -		38 25 16 SE		
Brent Tor -	Cock's Tor -	56 20 25 SE	42396 W	56524 N
Black Down -		30 22 25 SE		
Brent Tor -	Kit Hill New Station	45 8 35 SW	93041 W	39295 N
Cock's Tor -		71 12 35 SW		
Cock's Tor -	St. Budeaux Steeple	22 44 35 SW	65899 W	444 N
Kit Hill -		34 56 15 SE		
St. Stephens Down -	Bradbury Castle -	58 22 54 NE	59524 W	120224 N
Black Down -		9 12 30 NW		
Cawsand Beacon -		76 38 4 NW		
St Stephens Down -	Warbstow Barrow -	71 19 8 NW	152334 W	101118 N
Bradbury Castle -		78 22 5 SW		
St. Stephens Down -	Bratton Clovelly -	67 16 44 NE	65678 W	107224 N
Bradbury Castle -		25 20 15 SW		
St. Stephens Down -	Ashwater -	35 15 58 NE	91168 W	117735 N
Bradbury Castle -		85 30 44 SW		
St. Stephens Down -	North Tamerton Steeple	5 24 35 NW	115899 W	123988 N
Warbstow Barrow -		57 53 7 NE		
Warbstow Barrrow -	Beacon Moor, Holsworthy -	53 53 54 NE	91760 W	145295 N
St. Stephens Down -		19 44 34 NE		
Warbstow Barrow -	Kilkhampton -	12 59 38 NE	136566 W	169451 N
St. Stephens Down -		16 25 9 NW		
Warbstow Barrow -	Holsworthy Steeple -	45 59 18 NE	106027 W	145855 N
St. Stephens Down -		6 18 5 NE		
St. Stephens Down -	Bridgerule Steeple	14 13 49 NW	126468 W	142885 N
Warbstow Barrow -		31 46 11 NW		
Cawsand Beacon -	Great Haldon -	76 59 7 SE	73280 E	89204 N
Rippin Tor -		53 27 48 NE		
Great Haldon -	Palk's Tower -	49 39 32 NW	69876 E	92095 N
Rippin Tor -		48 54 38 NE		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Bradbury Castle -	Beacon Moor -	44 29 47 NE	7762 E	188702 N
Cawsand Beacon -		11 32 9 SW		
Cawsand Beacon -	Spreyton -	48 22 26 NE	10558 E	125241 N
Bradbury Castle -		85 54 21 NE		
Cawsand Beacon -	Winckley Steeple -	3 7 29 NW	11611 W	161866 N
Bradbury Castle -		49 0 9 NE		
Cawsand Beacon -	Hatherleigh Station -	34 19 49 NW	37155 W	149842 N
Bradbury Castle -		37 3 26 NE		
Cawsand Beacon -	West Morchard Steeple	39 8 37 NE	34460 E	161170 N
Great Haldon -		28 14 47 NW		
Hatherleigh Station -	High Hampton Steeple	89 3 19 SW	58245 W	149494 N
Bradbury Castle -		2 29 35 NE		
Holsworthy -	Pancras Week Steeple	69 17 45 NW	121569 W	151730 N
St. Stephen's -		8 5 33 NW		
Bradbury Castle -	Budleigh Steeple -	60 3 26 NE	5290 W	151463 N
Cawsand Beacon -		4 28 37 NE		
Bradbury Castle -	North Tawton, Steeple	70 13 51 NE	661 W	141386 N
Cawsand Beacon -		13 33 27 NE		
Cawsand Beacon -	Zeal Monachorum -	32 16 2 NE	17012 E	148838 N
Spreyton -		15 17 26 NE		
Cawsand Beacon -	Downe St. Mary Steeple	38 2 3 NE	24900 E	151071 N
Great Haldon -		38 1 27 NW		
High Hampton -	Petrock Stowe -	45 54 19 NE	50863 W	164687 N
Hatherleigh -		42 43 31 NW		
Bradbury Castle -	Belleview -	7 48 48 NE	47773 W	205840 N
Beacon Moor -		72 50 53 NW		
Belleview -	Langtree Steeple	48 59 8 SW	71787 W	184956 N
Bradbury Castle		10 43 39 NW		
Belleview - -	Cotten Hill -	34 26 10 NE	29860 W	231965 N
Beacon Moor -		41 0 27 NW		
Belleview -	Span Head -	52 25 54 NE	18690 E	256963 N
Beacon Moor -		9 5 58 NE		
Beacon Moor -	Northmolton Ridge	26 13 22 NE	34556 E	243109 N
Span Head -		48 52 17 SE		
Beacon Moor -	Thelbridge Steeple	68 45 13 SE	38814 E	176628 N
Northmolton Ridge		3 39 47 SE		
Beacon Moor -	Puddington Steeple	70 13 55 SE	54014 E	172078 N
Northmolton Ridge -		15 19 5 SE		
Beacon Moor -	Paracombe Station -	0 9 37 NW	7508 E	278549 N
Span Head -		27 23 26 NW		
Paracombe -	Heanton Steeple -	66 48 33 SW	56701 W	251042 N
Cotten Hill -		54 35 47 NW		
Paracombe -	Northam Steeple -	58 45 44 SW	73682 W	229306 N
Span Head -		73 19 57 SW		
Paracombe -	Hangman Hill -	66 34 43 SW	25350 W	292779 N
Cotten Hill -		4 15 25 NE		
Cotten Hill -	Harwood Steeple -	75 24 10 SW	56042 W	225144 N
Belleview -		23 11 50 NW		
Belleview -	Parkham Steeple -	87 31 10 SW	92701 W	203895 N
Harwood Steeple -		59 54 10 SW		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Cotten Hill -	Atherington Steeple	9 5 50 SE	26489 W	210910 N
Harwood Steeple -		64 16 50 SE		
Span Head -	Mary Ansleigh Steeple	5 56 20 SE	23715 E	208662 N
Northmolton Ridge		17 28 20 SW		
Span Head -	Kingsnympton Spire	14 42 20 SW	3651 E	199656 N
Northmolton Ridge		35 25 20 SW		
Span Head -	Knowstone Steeple -	61 28 40 SE	66889 E	230771 N
Northmolton Ridge		69 6 50 SE		
Span Head -	Castle, Castle Hill	35 14 40 SW	360 W	230000 N
Northmolton Ridge -		69 25 20 SW		
Span Head -	Chittlehampton Steeple	39 16 10 SW	12020 W	219378 N
Northmolton Ridge -		62 59 10 SW		
Span Head -	Saterleigh Gazebo -	21 40 30 SW	36 W	209845 N
Northmolton Ridge		46 7 20 SW		
Span Head -	Southmolton Steeple	8 17 50 SW	13484 E	221258 N
Northmolton Ridge		43 57 40 SW		
Northmolton Ridge	East Anstey Steeple	57 20 30 SE	63689 E	224436 N
Southmolton Steeple		85 22 40 NE		
Beacon Moor -	Warkleigh Steeple -	38 57 30 NW	9693 W	210288 N
Northmolton Ridge		53 26 10 SW		
Beacon Moor -	Witheridge -	83 33 20 SE	43765 E	184635 N
Northmolton Ridge		8 56 50 SE		
Beacon Moor -	Chawleigh Steeple -	29 26 30 SE	14001 E	177648 N
Thelbridge Steeple -		87 38 40 NW		
Beacon Moor -	Chumleigh Steeple -	18 33 40 SW	5619 E	182325 N
Thelbridge Steeple		80 15 40 NW		
Beacon Moor -	Coldridge Steeple -	4 36 20 SE	9987 E	161081 N
West Morchard -		89 45 10 NW		

Meridian of St. Agnes Beacon.

St. Buryan Steeple -	Levan Signal Staff -	44 46 12 SW	108914 W	98140 S
Sennen Steeple -		14 48 48 SE		
St. Buryan Steeple -	Pendennick Signal Staff	83 3 48 NW	116220 W	81768 S
Sennen Steeple -		45 29 48 SW		
Levan Signal Staff -	Titterdieu Signal Staff	75 41 12 NE	84770 W	91980 S
St. Buryan Steeple -		53 42 48 SE		
Pertinney -	Castle Dennis -	55 39 32 NE	71566 W	52960 S
Karnminnis -		12 0 8 SE		
Pertinney -	Tregonning Signal Staff	87 29 32 NE	31705 W	69692 S
Karnminnis -		55 41 38 SE		
Pertinney -	St. Michael's Mount	85 5 32 NE	61262 W	69337 S
Castle Dennis -		32 10 28 SE		
Pertinney -	St. Paul's Steeple	74 40 28 SE	77254 W	79064 S
Ludgvan Steeple -		31 53 32 SW		
Karnminnis -	Knill's Monument -	88 28 22 NE	61931 W	40392 S
Tregonning Signal Staff		45 53 38 NW		

Names of Stations	intersected Objects.	Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Karnminnis - Tregonning Signal Staff	Gwinear Steeple -	85 47 38 SE 9 13 38 NW	35955 W	43529 S
Karnminnis - Tregonning Signal Staff	St. Hilary Spire -	64 57 8 SE 38 51 38 NW	43504 W	55049 S
Karnbonellis - Tregonning Staff -	Park Loughs Signal Staff	6 55 10 SW 26 46 46 SE	10734 W	111239 S
Karnbonellis - St. Agnes Beacon -	St. Erme Steeple -	45 38 1 NE 88 44 22 SE	44658 E	983 N
St. Erme Steeple - Karnbonellis -	St. Michael Penkeville Steeple -	10 53 29 SE 67 54 31 NE	49499 E	24176 S
St. Erme Steeple - St. Michael Penkeville	Probus Steeple -	70 19 19 SE 33 56 31 NE	62206 E	5293 S
St. Erme Steeple - Probus Steeple -	Trevidown -	48 59 41 NE 11 2 41 NE	67269 E	20644 N
Park Loughs Signal Staff Tregonning Signal Staff	Cury Steeple -	14 31 44 NE 44 40 46 SE	6557 W	95119 S
Cury Steeple - Tregonning Signal Staff	Helston Down -	7 47 46 NW 64 36 46 SE	8533 W	80682 S
Helston Down - Tregonning Signal Staff	Helston Steeple -	39 46 46 NW 75 44 46 SE	13930 W	74200 S
Karnminnis - St. Agnes Beacon -	St. Ann's Summer House	61 20 58 NE 52 41 3 NE	150 E	115 N

Meridian of Dunnose.

Beacon Hill - Dean Hill - -	Salisbury Spire -	22 6 34 SW 68 52 6 NW	137645 W	163571 N
Beacon Hill - Dean Hill - -	Stockbridge Hill, New Station -	67 17 6 SE 55 36 4 NE	59732 W	181485 N
Stockbridge Hill - Dean Hill -	Farley Monument -	19 53 46 SE 78 53 17 NE	52333 W	161043 N
Farley Monument - Dean Hill -	Lyndhurst Steeple -	27 22 17 SW 16 22 13 SE	87582 W	92953 N
Farley Monument - Dean Hill -	Town Hill Telegraph	23 8 43 SE 61 41 23 SE	31004 E	11155 N
Farley Monument - Dean Hill -	Heathcote's Pillar -	39 28 37 SW 55 54 23 SE	76546 W	131753 N
Heathcotes Pillar - Dean Hill -	Toot Hill Telegraph	72 55 23 NE 61 40 23 SE	59741 W	126620 N
Heathcotes Pillar - Farley Monument -	White Flood Clump	80 40 37 NE 66 15 23 SE	11554 W	143106 N
Heathcotes Pillar - Dean Hill -	Ayres Summer House	67 4 23 NW 75 1 37 SW	114910 W	148020 N
Farley Monument - Dean Hill -	Nettle Heath Clump	22 42 53 SE 58 37 23 SE	28654 W	104486 E
Heathcote's Pillar - Dean Hill -	Eling Steeple -	25 13 3 SE 42 8 23 SE	64632 W	106647 N

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Heathcote's Pillar -	Ramsey Steeple -	59 31 57 NE	69724 W	135736 N
Eling Steeple -		9 55 53 SW		
Heathcote's Pillar -	Caddenham Station -	45 59 37 NE	63156 W	144600 N
Dean Hill -		81 30 23 SE		
Ayres Summer House	Branshaw Telegraph	10 8 23 SE	110125 W	121253 N
Heathcote's Pillar -		72 40 37 SW		
Farley Monument -	Ann's Hill Beacon -	79 18 23 SE	25848 W	156043 N
White Flood Clump -		47 51 23 NW		
Ann's Hill Beacon -	Longwood Barrow -	82 32 37 NE	13444 W	157668 N
White Flood Clump		7 24 23 NW		
Ann's Hill Beacon -	Winchester Cathedral	4 21 23 NW	26260 W	161449 N
Longwood Barrow -		73 33 23 NW		
Farley Monument -	Wickham Lodge Teleg.	47 49 23 SE	9996 E	104573 N
Nettle Heath Clump		89 52 7 NE		
Farley Monument -	Winchester Hill -	69 40 53 SE	25340 E	132282 W
Wickham Lodge Teleg.		28 58 37 NE		
Winchester Hill -	Chalkdon Telegraph	58 26 23 SE	50008 E	117129 N
Wickham Lodge Teleg.		72 34 37 NE		
Winchester Hill -	Portsdown Telegraph	9 21 53 SE	33033 E	85649 N
Wickham Lodge Teleg.		50 35 53 SE		
Farley Monument -	Gander Down Summer House -	82 36 18 SE	6744 W	155127 N
White Flood Clump		21 47 27 NE		
Farley Monument -	Alresford Steeple -	79 34 2 NE	8620 E	172270 N
Gander Down Sum. Ho.		41 51 22 NE		
Chalkdon Telegraph	Stanstead Monument	41 48 23 SE	69493 E	95342 N
Wickham Lodge Teleg.		81 10 53 SE		
Chalkdon Telegraph	Beacon Hill Telegraph	76 10 37 NE	79947 E	124496 N
Stanstead Monument		19 43 37 NE		
Chalkdon Telegraph	Hemsworth Chapel	16 59 23 SE	60392 E	83149 N
Beacon Hill Telegraph		25 18 37 SW		
Winchester Hill -	Froxfield Mill -	48 0 37 NE	52783 E	156983 N
Beacon Hill Telegraph		39 53 53 NW		
Froxfield Mill -	Binstead Spire -	21 14 7 NE	68992 E	198693 N
Beacon Hill Telegraph		8 23 53 NW		
Banstead Spire -	East Worldham Steeple	37 10 7 SW	2037 E	189523 N
Beacon Hill Telegraph		15 23 53 NW		
East Worldham Steeple	Bramshot Spire -	59 52 53 SE	92136 E	172068 N
Beacon Hill Telegraph		14 22 7 NE		
East Worldham Steeple	Alton Spire -	65 38 53 NW	51116 E	194464 N
Banstead Spire -		76 41 7 SW		
Beacon Hill -	Andover Steeple -	80 28 2 NE	64069 W	216162 N
Highclere Beacon -		39 36 42 SW		
Beacon Hill -	Danesbury Camp -	67 42 58 SE	78224 W	189596 N
Highclere Beacon		35 11 2 SW		
Beacon Hill - -	Windmill Hill, Dummer	86 8 22 NE	13891 E	215800 N
Highclere Beacon -		51 18 38 SE		
Beacon Hill -	Popham Beacon -	88 32 2 NE	11374 W	209540 N
Highclere Beacon -		26 22 58 SE		
Popham Beacon -	Hannington Steeple	6 52 2 NE	6844 W	247122 N
Highclere Beacon -		76 23 8 SE		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Popham Beacon -	Crawley Clump -	47 47 2 SW	39015 W	184458 N
Highclere Beacon -		4 50 2 SW		
Danesbury Camp -	Lord Portsmouth's	49 8 2 NE	39201 W	223359 N
Highclere Beacon -	House - -	11 18 32 SW		
Dean Hill -	Walbury Camp -	20 56 31 NE	59572 W	268360 N
Highclere Beacon -		60 36 59 NW		
Walbury Camp -	Newbury Steeple -	60 35 1 NE	28799 W	285712 N
Highclere Beacon -		7 44 1 NE		
Walbury Camp -	Uphurstborne Mill -	5 58 1 SW	62549 W	239880 N
Highclere Beacon -		65 8 1 SW		
Walbury Camp -	Lord Carnarvon's	77 34 59 SE	33954 W	262719 N
Highclere Beacon -	Temple -	4 49 59 NW		
Danesbury Camp -	Windmill Hill, Lugger-	29 25 58 NW	102988 W	233483 N
Beacon Hill -	shall -	32 38 2 NE		
Beacon Hill -	Tidcombe Down -	36 48 2 NE	85598 W	252876 N
Highclere Beacon -		89 19 22 SW		
Windmill Hill -	Chute Steeple -	60 29 2 NE	85540 W	243361 N
Danesbury Camp -		7 44 58 NW		
Windmill Hill -	Milk Hill -	46 40 58 NW	148963 W	276835 N
Beacon Hill -		22 22 58 NW		
Windmill Hill -	Red Horn Clump -	76 6 58 NW	162342 W	248150 N
Beacon Hill -		45 34 58 NW		
Windmill Hill -	Lord Elbury's Monu-	6 20 58 NW	108057 W	279031 N
Red Horn Clump -	ment -	60 22 2 NE		

Meridian of Greenwich.

Wendover - -	Stanmore -	63 15 17 SE	78374 W	52629 N
Kensworth -		25 33 36 SE		
Pen Steeple -	Windsor Castle -	16 48 5 SE	137374 W	2846 N
Stanmore -		49 0 35 SW		
Kensworth -	Berkhampstead Gazebo	66 49 36 SE	28002 W	101794 N
Stanmore -		45 41 54 NE		
Harrow Spire -	Hillingdon Steeple -	63 5 32 SW	104291 W	21213 N
Beaconsfield Steeple		58 49 28 SE		
Windsor Castle -	Beaconsfield -	9 25 5 NW	144445 W	45484 N
Pen Steeple -		39 32 5 SE		
Beaconsfield -	Cookham Dean -	55 17 55 SW	169700 W	27996 N
Windsor Castle -		52 7 5 NW		
Windsor Castle -	Bray Steeple - -	67 7 5 NW	159523 W	12194 N
Cookham Dean -		32 47 5 SE		
Bray Steeple -	Farnham Steeple -	64 56 55 NE	139611 W	21500 N
Cookham Dean -		77 49 5 SE		
Bray Steeple -	Cookham Steeple -	2 57 5 NW	160497 W	31114 N
Cookham Dean -		71 16 55 NE		
Bray Steeple -	Mount Pleasant Gazeb	5 2 55 NE	157528 W	34766 N
Cookham Dean -		60 54 55 NE		

Names of Stations	Names of intersected Objects.	Bearing	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Mount Pleasant -	Shottesbrook Spire	35 44 55 SW	179471 W	4265 N
Bray Steeple -		68 21 55 SW		
St. Peter's, St. Alban's	Watford Spire -	20 55 40 SW	89572 W	64776 N
Stanmore -		42 40 36 NW		
Cookham Dean -	Nettlebed Windmill	78 22 5 NW	224162 W	39208 N
Windsor Castle -		67 16 5 NW		
Nettlebed Windmill -	Ruscombe Steeple	39 28 45 SE	193554 W	2049 N
Windsor Castle -		89 11 15 SW		
Nettlebed Windmill -	Fawley Steeple -	82 55 45 SE	207380 W	37127 N
Ruscombe Steeple -		21 30 45 NW		
Nettlebed Windmill	Shiplake Steeple -	34 10 15 SE	203574 W	8878 N
Ruscombe Steeple -		55 43 15 NW		
Shiplake Steeple -	Henley Steeple -	4 29 15 NW	204735 W	23676 N
Ruscombe Steeple		27 20 15 NW		
Quainton - -	Brill Spire -	53 4 58 SW	237040 W	126390 N
Kensworth -		82 33 28 SW		
Quainton - -	Aylesbury Steeple -	40 23 34 SE	184119 W	125001 N
Kensworth - -		75 19 5 SW		
Wendover -	Long Crindon Windmill	77 22 18 NW	226084 W	112614 N
Kensworth -		74 36 42 SW		
Bow Brickhill -	Wing Steeple -	16 51 38 SW	162518 W	153853 N
Lilleyhoe -		77 23 39 SW		
Bow Brickhill -	Wingrave Steeple -	17 23 35 SW	166752 W	141526 N
Lilleyhoe -		70 7 27 SW		
Long Crindon Windmill	Whitchurch Steeple	46 58 31 NE	188146 W	148205 N
Aylesbury Steeple -		9 55 29 NW		
Long Crindon Windmill	Lousley Row Windmill	53 16 29 SE	184803 W	81818 N
Aylesbury Steeple		0 54 31 SW		
Long Crindon Windmill	Hadwell Barrow -	4 54 21 SE	223051 W	77280 N
Aylesbury Steeple		39 12 31 SW		
Hadwell Barrow -	Tame Steeple -	2 17 39 NE	222094 W	101182 N
Long Crindon Windmill		19 14 21 SE		
Quainton - -	Cobham's Pillar -	21 50 50 NW	227343 W	204635 N
Bow Brickhill -		79 27 3 NW		
Quainton -	Winslow Steeple -	18 12 20 NE	198641 W	170881 N
Cobham's Pillar -		40 22 25 SE		
Winslow Steeple -	Buckingham Spire -	49 24 25 NW	222564 W	191383 N
Cobham's Pillar -		19 49 25 SE		
Winslow Steeple -	Harwood Mill -	13 21 35 NE	195026 W	186108 N
Buckingham Spire -		79 9 25 SE		
Berkhampstead Gazebo	St. Peter's, St. Albans	89 40 44 SW	75525 W	101527 N
Stanmore -		3 20 4 NE		
Watford Spire -	Rickmansworth Spire	68 45 54 SW	106020 W	58364 N
Stanmore -		78 14 36 NW		
Orwell -	Hardwick Spire -	14 22 22 NE	2401 W	269291 N
Balsham Station -		73 2 8 NW		
Orwell - -	Orwell Pole -	52 43 22 SE	66 E	245224 N
Royston -		16 16 38 NE		
Orwell Pole -	Royston Steeple -	6 44 38 SW	4308 W	208233 N
Royston -		65 35 38 NE		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Orwell Pole -	Croydon Steeple -	71 7 38 SW	17828 W	239107 N
Royston - -		10 7 22 NW		
Newmarket -	Streatham Spire -	53 15 20 SW	51548 E	322680 N
Ely Minster -		28 28 20 SW		
Newmarket -	Gog Magog Telegraph	60 4 40 SW	43403 E	251493 N
Ely Minster -		11 34 40 SW		
Newmarket -	Swaffham Steeple -	89 17 20 SW	69839 E	285539 N
Streatham Spire -		26 12 20 SE		
Streatham Spire -	Chatteris Steeple -	44 2 40 NW	12576 E	362969 N
Ely Minster -		66 43 40 NW		
Streatham Spire -	Sutton Steeple -	53 54 40 NW	30269 E	338192 N
Ely Minster -		83 34 20 SW		
Streatham Spire -	St. Ive's Steeple -	83 4 20 SW	17794 W	314256 N
Cottenham Steeple -		76 57 40 NW		
Chatteris Steeple -	March Spire -	14 18 20 NE	20490 E	394005 N
Ely Minster -		38 23 40 NW		
Sutton Steeple -	Somersham Steeple -	84 32 10 NW	9 W	335296 N
Chatteris Steeple -		24 27 10 SW		
Sutton Steeple -	Warboys Spire -	84 52 40 SW	19353 W	342640 N
Chatteris Steeple -		57 31 50 SW		
Sutton Steeple -	Littleport Steeple -	57 33 20 NE	71278 E	364263 N
Ely Minster -		22 38 20 NE		
Warboys Spire -	Ramsey Steeple -	11 12 10 NE	22944 W	360768 N
Chatteris Steeple -		86 28 50 SW		
Ely Minster -	Wisbich Steeple -	13 18 40 NW	38032 E	442604 N
Chatteris Steeple -		17 43 50 NE		
Ely Minster -	Thorney Abbey -	45 35 40 NW	24052 W	425935 N
Wisbich Steeple -		74 58 20 SW		
Ely Minster -	Crowland Abbey -	43 15 40 NW	37335 W	447195 N
Wisbich Steeple -		86 30 40 NW		
Ely Minster -	Lynn Old Tower	12 56 20 NE	92769 E	476160 N
Wisbich Steeple -		58 29 20 NE		
Ely Minster -	Peterborough Cathedral	60 28 40 NW	54838 W	407859 N
Wisbich Steeple -		69 29 20 SW		
Ely Minster -	Downham Steeple -	19 1 20 NE	88774 E	419730 N
March Spire -		69 21 20 NE		
Peterborough -	Whittlesea Spire -	75 48 30 SE	28870 W	401292 N
Wisbich Steeple -		58 18 20 SW		
St. Ives Spire -	King's Bush -	58 34 20 SW	35199 W	303620 N
Cottenham Steeple		89 18 40 NW		
King's Bush -	Huntingdon Steeple	27 52 40 NW	41319 W	315189 N
St. Ives Steeple -		87 43 40 NW		
King's Bush -	Yelling Spire -	0 49 40 SE	34907 W	283608 N
Cottenham Steeple		73 53 20 SW		
Lilleyhoe -	Biggleswade Spire -	25 28 29 NE	59875 W	222454 N
Royston -		69 56 38 NW		
Biggleswade Spire -	Clay Hill Bush -	52 8 40 SE	33765 W	202160 N
Royston -		82 59 20 SW		
Clay Hill Bush -	Henlow Steeple -	87 41 40 NW	63668 W	203364 N
Biggleswade Spire		11 14 20 SW		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Henlow Steeple -	Baldock Telegraph -	48 15 40 SE	39906 W	182164 N
Clay Hill Bush -		17 4 20 SW		
Biggleswade Spire -	North Hill Steeple - -	61 56 40 NW	72537 W	229203 N
Henlow Steeple -		18 56 40 NW		
Biggleswade Spire	Blunham Steeple -	26 39 40 NW	70752 W	244119 N
North Hill Steeple		6 49 20 NE		
St. Ann's Hill -	Banstead Spire -	69 15 10 SE	45582 W	56816 S
Hanger Hill Tower -		16 46 0 SE		
St. Ann's Hill -	St. Ann's Clump - -	74 32 50 SW	119860 W	28979 S
Banstead Spire -		69 27 20 NW		
St. Ann's Clump -	Pain's Hill Spire -	35 25 20 SE	101174 W	55253 S
Banstead Spire -		88 23 20 NW		
St. Ann's Clump -	Woking Monument -	3 57 40 SW	122110 W	61475 S
Pain's Hill Spire -		73 27 0 SW		
St. Ann's Clump -	Guildford Steeple -	9 53 40 SW	130248 W	88530 S
Pain's Hill Spire -		41 8 40 SW		

ART. V. *An Alphabetical List of the Latitudes and Longitudes of the principal Stations, together with several Church Steeples, Lighthouses, and other remarkable Objects.*

Names of Stations and Objects.	Latitude.	Longitude from Greenwich.	Names of Stations and Objects.	Latitude.	Longitude from Greenwich.
	° ′ ″	° ′ ″		° ′ ″	° ′ ″
Abergele Steeple -	53 17 10	3 34 13 W	Anstruther, East, Spire	56 13 40	2 41 24 W
Abbotsbury Signal Staff	50 40 30	2 36 54 W	ARRAN FOWWDDY	52 47 15	3 40 27 W
ABERYSTWITH STATION -	52 25 49	4 3 19 W	ARRENNIG -	52 55 3	3 43 55 W
Air Point, Lighthouse	53 21 28	3 18 35 W	Asaph, St. Cathedral	53 15 28	3 25 44 W
Alban's, St. (St. Peter's Steeple) -	50 45 19	0 19 31 W	ASHLEY HEATH -	52 55 10	2 22 13 W
			Ashurst Beacon -	53 33 59	2 44 40 W
ALNWICK MOOR -	55 25 12	1 45 35 W	Ashwater -	50 44 5	4 16 20 W
Alresford Steeple -	51 5 27	1 9 21 W	Ashwell Spire -	52 2 32	0 9 23 W
Alton Spire -	51 9 5	0 58 17 W	Aspley Steeple -	52 0 59	0 37 29 W
Amlwch Steeple -	53 23 0	4 19 17 W	Atherington Steeple -	50 59 26	3 59 40 W
Andover Steeple -	51 12 39	1 28 19 W	Aughton Spire -	53 32 34	2 54 31 W
Annan Spire -	54 59 23	3 14 45 W	AXEDGE -	53 14 0	1 56 27 W
ANN's, ST. HILL, *Pem.*	51 41 39	5 8 53 W	Axholme Steeple -	53 29 27	0 50 40 W
Ann's St. Summer House	50 18 28	5 11 53 W	Aylesbury Steeple -	51 49 3	0 48 41 W
Ann's St. Lighthouse	51 40 59	5 9 19 W	Ayre's Summer House	51 1 24	1 41 27 W
Anstey, East Steeple	51 1 38	3 36 15 W	BAGBOROUGH -	51 6 36	3 10 54 W
Anstey, West Steeple	51 2 51	3 36 44 W	Baldock Telegraph -	51 58 36	0 10 35 W
Anstruther, West, Spire	56 13 33	2 41 37 W	BALSHAM NEW STATION - -	52 9 27	0 18 56 E

Names of Stations and Objects.	Latitude.	Longitude from Greenwich.
	° ′ ″	° ′ ″
Balsham Steeple -	52 8 13	0 20 3 E
Bambrough Castle Flag staff - -	55 36 42	1 42 8 W
Banstead Spire -	51 19 19	0 11 55 W
Bar Beacon -	52 34 23	1 54 12 W
Bardon Hill -	52 42 56	1 18 52 W
Barkston Spire -	52 54 26	0 50 24 W
Barnaby Moor -	54 33 31	1 6 58 W
Bas Rock, highest point	56 4 53	2 37 47 W
Base on Misterton Carr		
North End of -	53 31 50	0 54 3 W
South End of -	53 27 34	0 55 11 W
Base on Rhuddlan Marsh		
East End of -	53 17 14	3 27 33 W
West End of -	53 17 44	3 34 12 W
Bassingbourn Steeple -	52 4 49	0 3 31 W
Beacon Hill Telegraph	50 57 34	0 50 51 W
Beacons of Brecknock	51 53 4	3 25 26 W
Beaconsfield Spire -	51 36 3	0 38 0 W
Beadnell Spire -	55 33 33	1 37 44 W
Bebbington Spire -	53 20 55	2 59 32 W
Beckford Steeple -	52 1 17	2 1 41 W
Beer Signal Staff -	50 41 19	3 5 42 W
Bees, St. Head, Light-house - -	54 30 55	3 37 24 W
Bellchalwell Telegraph	50 52 32	2 16 36 W
Belle Field Hill	53 21 16	2 34 16 W
Belleview - -	50 58 37	4 5 12 W
Belton Steeple -	53 32 56	0 48 56 W
Belton Spire -	52 46 2	1 19 38 W
Bennington Steeple -	53 33 15	2 11 9 W
Berrow Steeple -	51 16 3	3 0 9 W
Berule (North) -	54 18 58	4 22 43 W
Berwick upon Tweed Spire - -	55 46 21	1 59 41 W
Beryl Hill -	53 50 26	3 1 49 W
Bettws Einon Church	52 6 6	4 27 48 W
Bidston Lighthouse -	53 24 6	3 3 46 W
Bigbury Spire -	50 18 19	3 51 29 W
Biggleswade Spire -	52 5 12	0 15 55 W
Billinge Beacon	53 30 29	2 42 22 W
Bingham Spire -	52 57 12	0 56 38 W
Binstead Spire -	51 9 46	0 53 37 W
Bispham Steeple -	53 51 29	3 1 32 W
Bishop and Clerks, Northmost Island	51 54 10	5 21 58 W
Bishop Wilton Spire -	53 59 16	0 47 6 W
Bishop's Lydiard -	51 3 43	3 10 37 W
Black Auton -	50 20 49	3 40 4 W
Black Comb -	54 15 33	3 18 58 W
Black Hambleton Down - -	54 18 29	1 14 35 W
Blackadder Tower -	55 46 35	2 13 27 W
Blackheddon -	55 38 30	1 55 15 W
Blackrod Steeple -	53 35 44	2 34 33 W
Blagdon - -	51 18 45	2 43 48 W
Blandford Telegraph	50 53 1	2 6 8 W
Bleasdale Forest	53 55 2	2 3 22 W
Blunham Steeple -	52 8 46	0 18 50 W
Boldon, West, Spire -	54 56 44	1 26 46 W
Boothby Steeple -	53 7 7	0 31 24 W
Bottesford - -	52 56 57	0 47 19 W
Bottesford Spire -	52 56 40	0 47 45 W
Bottisham Steeple -	52 13 42	0 16 29 E
Botton Head -	54 24 28	1 4 47 W
Boulsworth Hill -	53 49 5	2 5 58 W
Bow Fell - -	54 26 59	3 9 15 W
Bradbury Castle -	50 44 31	4 8 10 W
Bradfield Point -	53 26 35	1 35 38 W
Bradninch Steeple -	50 49 44	3 24 35 W
Bramshot Spire -	51 5 23	0 47 37 W
Brandon Warren	52 25 16	0 38 55 E
Brandon Down -	54 45 25	1 40 13 W
Branshaw Telegraph	50 56 59	1 40 10 W
Branston Spire -	52 17 30	1 12 31 W
Bratton Clovelly -	50 42 22	4 9 44 W
Bray Steeple -	51 30 33	0 41 53 W
Brayton Spire -	53 46 22	1 4 44 W
Brechva Mountain -	51 56 6	4 8 46 W
Breedon on the Hill, Steeple -	52 48 25	1 2 7 W
Breedon Spire - -	52 1 52	2 6 34 W
Brenin Vawr -	51 59 1	4 36 0 W
Brent Knoll -	51 15 16	2 56 6 W
Bridgend Steeple -	51 30 30	3 34 9 W
Bridgerule Steeple -	50 48 10	4 25 30 W
Brill Spire -	51 49 10	1 2 46 W
Brogborough -	52 2 12	0 35 33 W
Brompton Ralph	51 5 48	3 18 56 W
Brompton Regis Steeple	51 4 26	3 29 7 W
Brown Clee Hill -	52 28 37	2 35 22 W
Brusselton Folly -	54 37 17	1 40 40 W
Buckingham Spire -	51 59 53	0 59 5 W
Buckland Tout Saints	50 18 8	3 43 59 W
Buckland Steeple -	51 15 38	2 20 37 W
Buckland Steeple -	50 58 42	3 10 2 W
Budeaux, St. Steeple -	50 24 49	4 9 42 W
Budleigh Steeple -	50 49 40	3 54 10 W
Burnham Steeple -	51 14 25	2 59 13 W
Burrow Hill -	52 15 15	1 8 7 W
Burrow Mount Chapel	51 4 16	2 54 20 W
Bwlch Mawr -	53 0 19	4 19 46 W
Cader Idris -	52 42 2	3 53 36 W

Names of Stations and Objects.	Latitude.			Longitude from Greenwich.				Names of Stations and Objects.	Latitude.			Longitude from Greenwich.			
	°	′	″	°	′	″			°	′	″	°	′	″	
Caldy Island, Woolhouse	51	37	56	4	39	58	W	Collier Law -	54	46	22	1	58	2	W
Calf (The) -	54	22	11	2	30	13	W	Columpton Steeple -	50	51	24	3	22	43	W
Cambridge, *Trinity Spire*	52	12	45	0	7	42	E	Combe Florey Steeple	51	4	19	3	12	12	W
Trinity College Chapel	52	12	49	0	7	27	E	Combe Rawleigh -	50	49	22	3	12	13	W
Great St. Mary's Steeple	52	12	43	0	7	34	E	Coniston Fell -	54	22	20	3	6	34	W
Cannington -	51	9	32	3	4	4	W	Cookham Steeple -	51	33	39	0	42	12	W
Capel Kynon -	52	7	10	4	21	38	W	Coquet Island, Light-house -	55	20	11	1	31	55	W
Capellante -	51	51	47	3	29	3	W	Cothelestone Lodge	51	5	18	3	8	47	W
Cardigan Island, highest Point -	52	7	53	4	40	27	W	Coton Spire - -	52	13	1	0	3	59	E
Cardigan Steeple -	52	4	59	4	38	18	W	Cotten Hill -	51	2	54	4	0	35	W
Carlaveroc Castle -	54	58	41	3	30	41	W	Cottenham Spire -	52	18	25	0	8	27	E
Carmarthen, House at West end -	51	51	10	4	18	48	W	Cradle Mountain	51	57	7	3	6	39	W
Carn Vawr -	51	37	24	3	30	6	W	Crail Spire -	56	15	58	2	36	55	W
Carnarvon's, Lord, Temple -	51	20	19	1	20	29	W	Crail, High Building near - -	56	16	59	2	35	49	W
Carreg Glwydd -	51	50	44	3	48	52	W	Cranborne Steeple -	50	55	9	1	55	0	W
Carrock Fell -	54	41	43	3	0	40	W	Crewkerne Steeple -	50	53	7	2	47	17	W
Castle Baith Steeple -	51	55	28	4	51	38	W	Crif-fell -	54	56	44	3	36	55	W
Castle Dennis -	50	9	43	5	30	11	W	Cropwell Bishop	52	54	17	1	0	9	W
Castle Ring -	52	42	51	1	55	46	W	Crosby Steeple -	53	29	33	3	0	55	W
Castlineroach -	50	57	47	3	1	40	W	Cross Fell -	54	42	18	2	28	37	W
Cave Hill, Signal Staff	53	16	57	3	36	47	W	Crowland Abbey -	52	42	8	0	10	4	W
Caythorpe Spire -	53	1	38	0	35	51	W	Crowle Beacon -	53	36	36	0	49	4	W
Cefn Bryn -	51	34	50	4	7	25	W	Crowle Steeple -	53	36	30	0	49	49	W
Chalbury Telegraph	50	51	45	1	58	8	W	Croydon Steeple -	52	7	57	0	4	45	W
Chalkdon Telegraph	50	56	23	0	58	38	W	Crunwell Steeple -	51	44	25	4	38	36	W
Charleton Steeple	50	16	16	3	44	31	W	Culmstock -	50	55	45	3	15	20	W
Chatteris Steeple -	52	28	19	0	3	22	E	Curry Mallet Steeple	50	59	4	2	56	23	W
Chawleigh Steeple -	50	53	58	3	49	10	W	Cury Steeple -	50	2	49	5	13	36	W
Cheltenham Steeple	51	54	7	2	4	6	W	Cutcombe Steeple -	51	8	35	3	31	9	W
Chester, Trinity Spire	53	11	26	2	53	1	W	Cyrny Brain Mountain - -	53	2	20	3	9	44	W
Chester-le-Street Spire	54	51	28	1	33	49	W	Daffenside Beacon -	54	49	27	2	30	47	W
Cheviot (The) -	55	28	52	2	8	12	W	Daniel's St. Spire -	51	40	2	4	54	1	W
Chishall Steeple -	52	1	46	0	4	40	E	Daventry Spire -	52	15	39	1	9	3	W
Chittlehampton Steeple	51	0	49	3	55	55	W	David's, St., Cathedral	51	52	56	5	14	53	W
Christcross -	50	50	18	3	27	39	W	Decuman's, St., Steeple	51	10	36	3	19	36	W
Chumleigh Steeple -	50	54	44	3	51	20	W	Denbury - -	50	30	18	2	19	0	W
Church Down Steeple	51	52	13	2	9	49	W	Dent Hill -	54	30	19	3	28	28	W
Church Stowe Steeple	50	17	59	2	27	19	W	Derby Steeple -	52	55	32	1	28	16	W
Chute Steeple -	51	17	16	1	33	57	W	Devize's, St. John's Steeple -	51	21	15	1	59	6	W
Cleeve -	51	55	11	1	59	47	W	Doddington Spire	53	0	40	0	43	50	W
Cleeve Steeple -	51	56	54	2	3	0	W	Downe, St. Mary, Steeple	50	49	36	3	46	21	W
Cobham's Pillar -	52	2	3	1	0	24	W	Downham Steeple -	52	37	36	0	23	54	E
Coedana Church -	53	18	46	4	20	4	W	Drax Spire -	53	43	49	0	58	17	W
Cold Ashby Steeple -	52	23	34	1	1	24	W	Dulau Signal Staff -	55	55	54	2	13	12	W
Cold Fell Pike -	54	53	45	2	36	21	W	Dulverton Steeple -	51	2	11	3	32	55	W
Cold Overton Steeple	52	41	2	0	47	55	W	Dumpdon -	50	49	49	3	9	35	W
Coldridg Steeple	50	51	14	3	50	12	W	Dunchurch Steeple -	52	20	16	1	16	56	W
Coleby Spire -	53	8	4	0	32	25	W								

Names of Stations and Objects.	Latitude.			Longitude from Greenwich.				Names of Stations and Objects.	Latitude.			Longitude from Greenwich.			
	°	′	″	°	′	″			°	′	″	°	′	″	
Dunkery Beacon	51	9	48	3	34	25	W	Granchester Steeple -	52	11	4	0	6	9	E
Dunrigs (The) -	55	34	30	3	10	23	W	Grasholm Island -	51	43	55	5	27	31	W
Dunse Spire -	55	46	50	2	19	58	W	Great Gavel -	54	29	2	3	12	30	W
Dunstanbrough Castle	55	29	36	1	35	18	W	Gringley on the Hill Steeple -	53	24	31	0	48	21	W
Durham Cathedral -	54	46	31	1	34	6	W	Gringley Beacon	53	24	35	0	52	53	W
Earl's Mount Obelisk	55	25	44	1	44	36	W	Grisdale Pike -	54	35	24	3	14	57	W
Easington Heights	54	33	59	0	50	10	W	Guildford Steeple -	51	14	2	0	34	0	W
Easington Steeple -	54	47	9	1	21	1	W	Guilesborough Spire -	52	20	56	1	0	14	W
Eastham Spire -	53	18	50	2	57	1	W	Gwaunysgaer Down	53	19	21	3	23	1	W
East Worldham Steeple	51	8	17	1	11	6	W	Gwynier Steeple -	50	11	17	5	21	6	W
Elbury's, Lord, Monument - -	51	22	56	1	39	54	W	Habchester Hill, Signal Staff - -	55	49	27	2	4	54	W
Elden Hills, highest point - -	55	35	6	2	42	27	W	Haddenham Spire -	52	22	20	0	9	26	E
Elianus Point Signal Staff - -	53	25	2	4	16	20	W	Haddon Beacon -	51	2	53	3	28	13	W
Eling Steeple -	50	54	39	1	28	21	W	Haddon, West Steeple	52	20	30	1	4	16	W
Elmo, St. Summer House	53	19	33	3	21	46	W	Haldon Obelisk -	50	37	3	3	30	27	W
Ely Minster -	52	24	49	0	16	35	E	Halsall Spire -	53	35	11	2	56	24	W
Embleton Steeple -	55	29	53	1	37	42	W	Hambleton Down	54	14	51	1	12	39	W
Enmore Steeple -	51	6	42	3	4	34	W	Hangman Hill -	51	12	54	3	59	23	W
Epworth Steeple -	53	23	18	0	48	58	W	Hannington Steeple -	51	17	45	1	13	23	W
Eversden (Great) Steeple	52	8	35	0	0	20	E	Hardwick Spire -	52	12	55	0	0	6	W
Everton Flagstaff -	53	25	31	2	57	34	W	Harmstone Steeple -	53	8	59	0	32	37	W
Exeter Cathedral -	50	43	25	3	31	0	W	Harner Hill -	50	48	47	3	3	11	W
Farley Monument -	51	3	35	1	25	12	W	Hartland Point	51	1	22	4	30	26	W
Farnham Steeple -	51	32	6	0	36	41	W	Hartlepool Steeple -	54	41	49	1	10	31	W
Fawley Steeple -	51	34	34	0	54	32	W	Harwood Steeple -	51	1	45	4	7	21	W
Ferwig Steeple -	52	6	53	4	38	1	W	Hatfield Spire -	53	33	47	1	5	27	W
Fivehead Steeple -	51	0	17	2	54	33	W	Hathersage -	53	20	21	1	35	8	W
Flatholmes Light-house - -	51	22	33	3	6	25	W	Haverfordwest Spire	51	48	12	4	57	11	W
Fonthill Abbey -	51	4	43	2	6	34	W	Hawk Church -	50	48	1	2	55	22	W
Formby Point								Hawkestone Obelisk -	52	51	34	2	36	59	W
North W. Landmark	53	32	34	3	5	2	W	Headon Steeple -	52	2	22	0	5	39	E
South E. Landmark	53	32	23	3	3	18	W	Heanton Steeple -	51	6	0	4	7	33	W
Foston Spire -	52	56	33	0	46	21	W	Heathcote's Pillar -	50	58	46	1	31	28	W
Gaddon Hill -	50	53	30	3	21	46	W	Hedgehope -	55	28	28	2	4	54	W
Gander Down Summer House -	50	52	38	1	13	21	W	Helbre Lighthouse -	53	23	34	3	10	13	W
Garreg Mountain	53	17	41	3	17	19	W	Helkinton -	52	23	14	1	3	33	W
Garth Hill -	51	32	35	3	16	55	W	Helston Steeple -	50	6	15	5	15	29	W
Gernsey's Gazebo -	50	52	41	3	16	3	W	Helvellin Mountain -	54	31	43	3	0	21	W
Gillingham Steeple -	51	2	20	2	16	8	W	Hembury Fort -	50	49	12	3	14	58	W
Glastonbury Tor -	51	8	43	2	41	19	W	Hemingbrough Spire -	53	46	6	0	58	26	W
Glocester Cathedral -	51	52	3	2	14	15	W	Hemsworth Chapel -	50	50	47	0	55	58	W
Go Hill - -	53	33	51	2	53	55	W	Henley Steeple -	51	32	21	0	53	48	W
Gog Magog Telegraph	52	9	59	0	11	34	E	Henlow Steeple -	52	2	4	0	16	53	W
Goldington Steeple -	52	1	16	0	36	58	W	Henstridge Steeple -	50	58	38	2	23	13	W
Granby Steeple -	52	55	8	0	52	47	W	Heswell Hill -	53	20	3	3	5	24	W

Names of Stations and Objects.	Latitude.	Longitude from Greenwich.
	° ′ ″	° ′ ″
HIGH PIKE -	54 42 27	3 2 49 W
HIGHGATE MOUNTAIN -	51 39 41	4 55 12 W
High Howland Steeple	53 35 32	1 34 45 W
High Hampton Steeple	50 49 19	4 7 52 W
Hilary, St. Steeple -	51 26 59	3 24 16 W
Hilary, St. Steeple, *Cornwall* -	50 9 23	5 23 2 W
HILL FARM -	51 57 56	0 37 13 W
Hill Farence -	51 1 2	2 36 50 W
Hillingdon Steeple -	51 32 6	0 27 24 W
Hinton Steeple, *Som.*	51 19 26	2 18 47 W
Hinton Steeple, *Dorset.*	50 56 40	2 17 46 W
Holcombe Rogus -	50 57 48	3 19 57 W
HOLLAND HILL -	53 1 56	1 6 27 W
HOLME MOSS -	53 32 23	1 52 32 W
Holsworthy Steeple -	50 48 41	4 20 13 W
HOLYHEAD MOUNTAIN -	53 18 51	4 39 27 W
Holy Island Castle Flagstaff -	55 40 20	1 46 38 W
Home Steeple -	53 54 38	0 32 15 W
Honiton Chapel -	50 48 3	3 10 36 W
HORSEMOOR HILL -	51 59 42	0 38 2 W
Howden Steeple -	53 44 46	1 12 26 W
Hubberston Steeple -	51 42 56	5 2 7 W
Hume Castle -	55 40 5	2 27 38 W
HUNSLEY BEACON -	53 47 59	0 34 20 W
Huntingdon Steeple -	52 20 27	0 11 3 W
Huntspill Steeple -	51 12 19	2 59 8 W
Ilchester Steeple -	51 0 23	2 40 14 W
Ilton Steeple -	50 57 11	2 54 48 W
INGLEBOROUGH HILL	54 10 4	2 23 18 W
Ives, St. Steeple -	52 20 19	0 4 45 W
Iwerne Minster -	50 55 49	2 10 49 W
Johnston Steeple -	51 45 17	4 58 41 W
Kelshall Steeple -	52 0 29	0 3 51 W
Kenfig Steeple -	51 31 26	3 42 26 W
Kentisbeare -	50 52 33	3 16 26 W
Kidwelly Spire -	51 44 15	4 17 22 W
Kilhope Law -	54 48 0	2 16 17 W
Kilkhampton Steeple -	50 52 32	4 28 10 W
Kilrenny Spire -	56 14 17	2 40 35 W
Kilvey Windmill -	51 37 47	3 54 12 W
Kilvington Steeple -	52 52 28	0 51 46 W
Kilworth, South Steeple	52 28 44	1 9 23 W
Kilworth, North Steeple	52 26 39	1 5 23 W
Kingsettles -	51 1 47	2 11 0 W
Kingsnympton Spire	50 57 35	3 51 51 W
Kingston Steeple -	50 18 54	3 51 40 W
Kirby Spire -	53 5 55	1 15 48 W
Kirkby Lonsdale Steeple	54 12 18	2 35 15 W
Knill's Monument -	50 11 48	5 27 44 W
Knoll Hill -	53 38 57	2 13 53 W
Knowstone Steeple -	51 2 40	3 35 24 W
Kritch Spire -	53 15 43	1 7 10 W
Kyloe Steeple -	55 39 36	1 54 39 W
Lancaster Steeple -	54 3 8	2 47 41 W
Langar Steeple -	52 55 3	0 51 27 W
Langford Budville -	51 0 46	3 12 11 W
Langtree Steeple -	50 55 8	4 11 24 W
LANNON -	51 45 6	4 8 9 W
Lannon Steeple -	51 45 21	4 6 3 W
Lansdown Monument	51 25 29	2 22 22 W
LARGO LAW -	56 14 15	2 54 52 W
Laugharne Steeple -	51 46 34	4 26 43 W
Leadenham Spire -	53 3 20	0 34 47 W
Leasowes Lighthouse	53 24 50	3 6 49 W
Ledbury Steeple -	52 2 16	2 24 38 W
LEDSTONE BEACON	53 46 31	1 18 47 W
Leigh Steeple -	51 13 28	2 25 58 W
Levan Signal Staff -	50 2 16	5 39 39 W
LINCOLN MINSTER	53 14 7	0 32 1 W
Litchfield Spire -	52 41 12	1 49 21 W
LITTLEPORT -	52 27 59	0 18 40 E
Littleport Steeple -	52 28 30	0 19 7 E
Little Brickhill Steeple	51 58 59	0 40 21 W
Liverpool, *St. Paul's*	53 24 40	2 58 55 W
Llaeithty Rock -	51 54 16	5 16 9 W
Llaleston Steeple -	51 30 23	3 36 29 W
Llandilo Steeple -	51 52 55	3 58 37 W
LLANDINAM MOUNTAIN -	52 25 15	3 25 26 W
Llandovery, St. Maryon the Hill -	52 0 4	3 44 22 W
LLANELIAN MOUNTAIN, *Denb.* -	53 15 23	3 43 2 W
LLANELIAN MOUNTAIN, *Ang.* -	53 24 4	4 16 55 W
Llanelian Spire -	53 24 42	4 17 13 W
Llanelly Steeple -	51 41 2	4 8 41 W
Llandonna Signal Staff	53 18 43	4 6 31 W
Llangadock Steeple -	51 56 23	3 52 11 W
LLANGEINOR MOUNTAIN - -	51 38 28	3 33 33 W
Llangynog Mountain	51 49 2	4 23 26 W
Llansaint Hill -	51 45 26	4 17 41 W
Llanstephan Castle -	51 45 57	4 22 25 W
Llantrissant Steeple -	51 32 32	3 21 50 W
Llanvihangel Penbedw Steeple - -	52 1 29	4 35 40 W
Llanwenog Steeple -	52 5 16	4 11 0 W

Names of Stations and Objects.	Latitude.			Longitude from Greenwich.			
	°	′	″	°	′	″	
Elwydiart Mountain -	53	17	10	4	10	26	W
Lomond Top, *East*	56	14	44	3	12	33	W
Lomond Top, *West*	56	14	57	3	17	4	W
Long Bennington Steeple - -	52	59	12	0	44	27	W
Long Mount Pole	52	32	42	2	51	10	W
Long Mountain -	52	38	44	3	4	35	W
Loosehoe Moor -	54	24	11	0	54	54	W
Lord's Seat -	53	20	57	1	49	28	W
Loughborough Steeple	52	46	31	1	11	54	W
Loughton Spire -	53	23	21	1	13	7	W
Lowick Steeple -	55	39	12	1	58	28	W
Ludchurch Steeple	51	45	57	4	40	36	W
Lulworth Flagstaff -	50	39	19	2	18	28	W
Lumsdane Hill -	55	54	38	2	11	50	W
Lundy Isle, St. Ann's Chapel -	51	9	47	4	38	28	W
Lutterworth Steeple -	52	27	20	1	12	1	W
Lyndhurst Steeple -	50	52	23	1	34	19	W
Lynn Old Tower -	52	46	52	0	25	4	E
Maddingly -	52	13	21	0	3	46	E
Maenclochog Steeple -	51	54	45	4	46	11	W
Malvern Hill -	52	6	18	2	19	47	W
Mancha Hill -	51	47	50	4	11	9	W
Manchester, *St. Mary's Spire* - -	53	29	0	2	14	22	W
March Spire -	52	33	25	0	5	30	E
Margam Down -	51	35	11	3	41	28	W
Mark Steeple -	51	13	37	2	52	39	W
Marros Steeple -	51	45	4	4	34	50	W
Marros Beacon -	51	44	33	4	35	6	W
Marston Hill, Windmill	54	57	50	1	23	10	W
Marston Mortyne Steeple - -	52	1	37	0	36	46	W
Mary Ansleigh Steeple	50	59	3	3	46	38	W
Mary St. Hill, Steeple	51	30	11	3	29	23	W
May Hill -	51	53	20	2	26	1	W
May, Isle of, *Lighthouse*	56	11	22	2	32	47	W
Melbourne Steeple -	52	5	10	0	1	11	E
Meldreth Steeple -	52	4	50	0	0	50	E
Melksham Steeple -	51	22	22	2	7	58	W
Merrington Steeple -	54	40	45	1	35	13	W
Michael's St. Mount	50	7	2	5	27	33	W
Michael's St. Penkeville Steeple -	50	14	28	4	59	17	W
Mildenhall Steeple -	52	21	19	0	31	56	E
Milford Steeple -	51	42	43	5	0	33	W
Milford, Lord's, Summer House -	51	47	9	4	51	30	W
Milton Bryant Steeple	51	58	1	0	35	5	W
Minehead Steeple -	51	12	42	3	28	4	W
Missin Steeple -	53	26	49	0	56	19	W
Misterton Steeple -	52	27	40	1	11	27	W
Modbury Spire -	50	20	56	3	52	36	W
Moel Fammau -	53	9	19	3	14	37	W
Moelfre Issa -	53	14	52	3	33	35	W
Monance, St. Spire	56	12	24	2	45	37	W
Montacute's Signal Staff	50	57	2	2	42	44	W
Mordington Hill	55	48	39	2	3	45	W
Morebath Steeple -	51	0	57	2	38	1	W
Mote Steeple -	51	53	33	4	47	55	W
Mount Pleasant Gazebo	51	34	16	0	41	25	W
Mow Copt -	53	6	56	2	12	15	W
Mumbles Lighthouse	51	34	0	3	57	20	W
Mynydd Mane -	51	40	27	3	3	36	W
Naseby Field -	52	24	21	0	58	28	W
Naseby Steeple -	52	23	52	0	59	3	W
Nelson's Tower -	51	51	8	4	6	13	W
Neston Steeple -	53	17	24	3	3	10	W
Nether Broughton Steeple - -	52	49	48	0	57	49	W
Newark Steeple -	53	4	30	0	49	18	W
Newbiggin Spire -	55	11	14	1	29	42	W
Newbury Steeple -	51	24	5	1	19	9	W
New Inn Hill -	51	58	47	4	11	58	W
Newmarket -	52	15	28	0	27	12	E
Newton Down -	51	44	7	4	53	53	W
Newton Down Signal Staff	51	30	35	3	39	21	W
Newton, St. Cyrus Steeple -	50	46	18	3	34	40	W
Newton Summer House	50	56	14	2	36	50	W
Newts Down -	50	53	31	3	26	58	W
Nine Standards -	54	27	21	2	15	57	W
Nipple Rock -	51	43	16	4	52	50	W
Norham Castle -	51	43	29	2	8	30	W
Northam Steeple -	51	2	26	4	11	57	W
North Berwick Law, Staff -	56	3	8	2	42	11	W
North-Hill Steeple -	52	6	18	0	19	18	W
North Meals Spire -	53	39	41	2	57	3	W
North Molton Ridge -	51	4	44	3	43	47	W
North Petherton Steeple	51	5	34	3	0	14	W
North Tawton Steeple	50	48	0	3	52	58	W
Northy -	52	22	38	0	8	3	E
Norton Fitzwarren	51	1	41	3	8	8	W
Nottingham Steeple -	52	57	8	1	8	14	W
Ogmoor Down -	51	28	1	3	35	26	W
Old Law, Beacon Staff	55	39	42	1	46	57	W
Orme's Head (Great)	53	20	2	3	50	21	W

Names of Stations and Objects.	Latitude.	Longitude from Greenwich.
	° ′ ″	° ′ ″
Ormskirk Spire -	53 34 12	2 52 36 W
Orpit Heights -	53 3 43	1 32 22 W
Orwell -	52 9 22	0 0 50 W
Orwell Pole -	52 5 41	0 0 1 E
Orwell Steeple -	52 8 20	0 0 28 W
Ottery St. Mary -	50 45 13	3 16 8 W
Over Broughton Steeple	52 49 49	0 58 55 W
Pains Hill Spire -	51 19 32	0 26 28 W
Palk's Tower -	50 39 53	3 34 46 W
Pancras Week Steeple	50 49 38	4 24 15 W
Paracombe -	51 10 33	3 50 49 W
Parkham Steeple -	50 58 14	4 18 51 W
Paul's St. Steeple -	50 5 26	5 31 37 W
Peel Castle -	54 3 49	3 9 41 W
Peel Fell -	55 16 14	2 34 48 W
Penboir Steeple -	52 0 4	4 21 23 W
Penbree Steeple -	51 41 18	4 15 28 W
Penbury Rock -	51 54 59	5 13 45 W
Pencarn -	52 0 34	5 2 51 W
Pendennick Signal Staff	50 4 57	5 41 32 W
Pendle Hill -	53 52 11	2 17 21 W
Pengarn Mountain	52 40 42	4 1 1 W
Penmaen Mawr -	53 15 39	3 55 59 W
Pennigant Hill -	54 10 56	2 14 22 W
Pen Selwood Steeple	51 4 55	2 20 26 W
Pen y Voel -	51 54 36	2 56 3 W
Penrith Beacon -	54 40 37	2 43 59 W
Pershore Steeple -	52 6 39	2 4 12 W
Peterborough Cathedral	52 35 40	0 14 45 W
Petrock Stowe Steeple	50 51 49	4 5 58 W
Petrox, St. Steeple -	51 38 27	4 54 54 W
Pewsey Steeple -	51 20 18	1 45 34 W
Pillar (The) -	54 29 57	3 16 7 W
Pistle Down Telegraph	50 53 58	1 51 44 W
Pittenweem Spire -	56 12 48	2 43 2 W
Plumstone Down	51 52 5	5 1 19 W
Plungar Steeple -	52 53 57	0 51 11 W
Plynlimmon -	52 28 3	3 46 4 W
Pontop Pike -	54 52 19	1 45 35 W
Portlemouth -	50 13 58	3 44 32 W
Portsdown Telegraph	50 51 13	1 3 3 W
Portsmouth's, Lord, House - -	51 13 50	1 21 50 W
Poulton Steeple -	53 50 54	2 58 51 W
Prandergest Steeple -	51 48 28	4 56 40 W
Pregelly Top -	51 56 48	4 45 21 W
Prescot Spire -	53 25 45	2 47 44 W
Prestbury Steeple -	51 54 54	2 2 14 W
Probus, St. Steeple -	50 17 34	4 56 1 W
Puddington Steeple -	50 53 2	3 38 48 W
Queensberry Hill -	55 17 2	3 34 47 W
Radnor Forest -	52 16 2	3 11 16 W
Ramsey Island, highest point -	51 51 43	5 19 36 W
Ramsey Steeple -	52 27 57	0 6 9 W
Redmile Spire -	52 54 44	0 48 42 W
Red Pike -	54 31 24	3 16 31 W
Retford (East) Spire -	53 23 58	0 54 3 W
Rhiw Mountain -	52 50 0	4 36 48 W
Rhuddlan Steeple -	53 17 30	3 27 24 W
Rickmansworth Spire	51 38 12	0 27 55 W
Ripon Church -	54 8 11	1 30 47 W
Rivel Mountain -	52 58 33	4 24 9 W
Rivington Hill -	53 37 51	2 30 21 W
Roch Castle -	51 50 59	5 2 32 W
Rodney's Pillar -	52 43 23	3 2 1 W
Romsey Steeple -	50 59 26	1 29 45 W
Rosilly Barrow -	51 34 35	4 15 51 W
Rossal Point, Landmark	53 55 18	3 2 20 W
Royston -	52 2 20	0 3 7 W
Royston Steeple -	52 2 53	0 1 9 W
Rufflaw -	55 13 16	1 45 13 W
Rumbles Moor -	53 54 16	1 49 9 W
Ruscombe Steeple -	51 28 49	0 50 48 W
Saddle Back -	54 38 30	3 2 17 W
Salcombe Chapel -	50 14 22	3 45 15 W
Salisbury Spire -	51 3 56	1 47 24 W
Sampford -	50 56 41	3 14 59 W
Sandon Steeple -	51 59 35	0 4 26 W
Saterleigh Gazebo -	50 59 15	3 52 48 W
Sayrs Law -	55 51 1	2 39 35 W
Sca Fell (Lower Top) -	54 27 2	3 12 45 W
Scilly Bank -	54 33 43	3 32 54 W
Seaton Delaval Summer House -	55 5 2	1 28 42 W
Seend Steeple -	51 20 50	2 4 28 W
Selby Steeple -	53 47 7	1 3 42 W
Sephton Spire -	53 30 19	2 57 36 W
Shaftsbury, *Trinity Steeple* -	51 0 24	2 11 25 W
Sherborne Steeple -	50 56 50	2 30 26 W
Sherf Hill, Beacon Staff	54 52 59	1 34 23 W
Shields, North, Steeple	55 0 48	1 26 27 W
Shiplake Steeple -	51 29 56	0 53 27 W
Shottesbrook Spire -	51 29 13	0 47 6 W
Shrewsbury, *St. Chads Steeple* -	52 42 28	2 44 53 W
Shuckburgh Steeple -	52 15 10	1 16 3 W
Shunnor Fell -	54 22 21	2 13 31 W
Sibertoft Steeple -	52 26 22	0 59 38 W
Simonside Hill -	55 17 5	1 57 16 W

Names of Stations and Objects.	Latitude.			Longitude from Greenwich.			
	°	′	″	°	′	″	
SKIDDAW -	54	39	12	3	8	9	W
Small's Lighthouse -	51	43	18	5	38	54	W
SNEA FELL -	54	17	28	4	26	46	W
SNOWDON -	53	4	9	4	3	38	W
Somersham Steeple -	52	23	46	0	0	0	
South Molton Steeple	51	1	8	3	49	17	W
Southerness Point Landmark - - -	54	52	30	3	34	53	W
South Petherton -	50	56	54	2	47	54	W
Soutra Hill Pile -	55	51	1	2	45	6	W
SPAN HEAD -	51	7	1	3	47	55	W
Spreyton Steeple -	50	45	21	3	50	4	W
STAINCROSS HEIGHTS	53	35	32	1	30	14	W
Stalling Down Signal Staff -	51	27	19	3	24	24	W
Standish Spire -	53	35	17	2	39	4	W
Stanmore Station -	51	37	17	0	20	38	W
Stanstead Monument	50	52	47	0	53	36	W
Staple Hill -	50	56	43	3	4	16	W
Staples, West, Lighthouse -	55	37	11	1	38	51	W
Staples, East, Lighthouse -	55	38	9	1	37	5	W
Staples, Building on the	55	37	8	1	38	54	W
STATHERN POINT -	52	52	33	0	49	50	W
Stathern Steeple -	52	52	17	0	50	55	W
Steeple Ashton -	51	18	49	2	7	39	W
Steinton Steeple -	51	43	51	4	59	50	W
STOW HILL -	52	21	53	2	59	31	W
Stow, Building on Hill near -	55	34	50	2	53	24	W
Stretham Steeple -	52	21	41	0	13	48	E
Sturminster Steeple -	50	55	31	2	17	39	W
Stutland Signal Staff	50	37	57	1	55	52	W
Sunderland Lighthouse	54	55	12	1	21	16	W
Sunderland Point Windmill -	55	34	45	1	37	56	W
SUTTON ASHFIELD	53	6	52	1	12	58	W
Sutton Spire -	53	7	36	1	42	38	W
Sutton Steeple -	52	24	14	0	8	6	E
Swaffham Spire -	52	15	35	0	18	39	E
Swansea Castle -	51	37	13	3	55	32	W
SYMMOND'S HALL -	51	39	48	2	17	59	W
Taliaris Pigeon House	51	55	54	3	57	26	W
TALSARN -	52	13	8	4	7	8	W
Tamerton North Steeple	50	45	5	4	22	44	W
Tame Steeple -	51	45	3	0	58	38	W
Taunton, *St. Mary's Steeple* -	51	0	59	3	5	22	W
Tenby Spire -	51	40	20	4	40	52	W
Tewkesbury Steeple	51	59	27	2	9	7	W
Thelbridge Steeple -	50	53	47	3	42	44	W
Therfield Steeple -	52	0	57	0	3	20	W
Thorne Falcon Steeple	51	0	38	3	0	43	W
Thorne Steeple -	53	36	45	0	56	8	W
Thorney Abbey -	52	38	39	0	6	29	W
TILTON ON THE HILL	52	38	46	0	51	45	W
Tilton on the Hill Spire	52	38	40	0	53	53	W
Titterdieu Signal Staff	50	3	19	5	33	30	W
Toot Hill Telegraph	50	57	56	1	27	6	W
Totness Steeple -	50	25	57	3	40	29	W
Town Hill Telegraph	50	55	24	1	19	38	W
TRECASTLE BEACON	51	52	58	3	41	35	W
Tre Carn Issa -	51	50	5	3	53	44	W
Trechrig Mountain -	51	53	25	3	52	31	W
TREGARRON DOWN	52	14	3	3	49	53	W
Tregonning Signal Staff	50	6	59	5	20	1	W
TRELLEG BEACON -	51	44	42	2	41	51	W
Trelleg Steeple -	51	44	47	2	42	53	W
Trowbridge Spire -	51	19	8	2	11	57	W
Trumpington Steeple	52	10	45	0	6	58	W
Tuddington Steeple -	51	56	59	0	39	55	W
Twinell's St. Steeple -	51	38	24	4	56	44	W
Twymbarlum Mountain	51	37	41	3	4	55	W
Tynemouth Lighthouse	55	1	21	1	24	31	W
Uffculme Steeple -	50	54	15	3	19	16	W
Ugborough Spire -	50	23	13	3	50	53	W
Wakefield Spire -	53	41	2	1	29	24	W
Wallaton Cross -	50	19	27	3	41	30	W
Waller's Pleasure House	53	49	41	2	22	14	W
Waltham Spire -	52	49	5	0	48	21	W
Warboys Spire -	52	24	58	0	5	11	W
Warbstow -	50	41	17	4	32	5	W
Wardour Castle -	51	2	32	2	5	45	W
Wareham Steeple -	50	41	5	2	5	56	W
Warkleigh Steeple -	50	59	20	3	55	19	W
Warkworth Castle -	55	20	54	1	36	14	W
Warren Bank -	52	5	49	4	36	18	W
Warren Spire -	51	38	20	4	58	13	W
Warren Signal Staff -	50	53	17	2	50	4	W
Warrington Steeple -	53	23	30	2	33	11	W
WATER CRAG -	54	26	19	2	6	8	W
Watford Spire -	51	39	16	0	23	36	W
Wavertree Steeple -	53	23	43	2	54	17	W
WEAVER HILL -	53	0	55	1	51	10	W
Wednesbury Spire -	52	33	23	2	0	44	W
Welford Steeple -	52	25	5	1	3	13	W
Wellingore Steeple -	53	5	53	0	31	52	W
Wellington Steeple -	50	58	54	3	12	49	W
West Allington Steeple	50	16	55	3	46	45	W
West Hatch Steeple -	50	59	5	3	0	30	W
West Knoyle Steeple	51	5	39	2	11	36	W

Names of stations and Objects.	Latitude.			Longitude from Greenwich.				Names of Stations and Objects.	Latitude.			Longitude from Greenwich.			
	°	′	″	°	′	″			°	′	″	°	′	″	
West Mouse -	53	25	6	4	32	13	W	Winwick Spire -	53	25	53	2	35	16	W
West Morchard Steeple	50	51	15	3	43	52	W	Wisbich Steeple -	52	41	23	0	10	15	E
Westerton Folly -	54	40	32	1	37	16	W	Wisp Hill -	55	17	13	2	57	22	W
Whatley Spire -	51	13	39	2	22	23	W	Witheridge -	50	55	6	3	41	27	W
Whatton Spire . -	52	57	1	0	53	15	W	Wittle Hill -	53	40	4	2	15	26	W
Whernside (Great in Kettlewell Dale) -	54	9	44	1	59	24	W	Wiveliscombe Steeple	51	2	30	3	17	52	W
Whernside (in Ingleton Fells) -	54	13	45	2	23	35	W	Woburn Abbey -	51	54	47	0	35	42	W
Whin Fell -	55	21	32	3	15	4	W	Woking Monument	51	18	30	0	31	55	W
Whitchurch Steeple -	51	52	51	0	49	49	W	Woodbury Signal Staff	50	37	22	3	20	17	W
Whitehaven, Windmill near -	54	32	50	3	34	56	W	Woolavington Steeple	51	10	16	2	55	24	W
Whittlesea Spire -	52	34	36	0	7	46	W	Woolford Lodge -	50	49	1	3	12	15	W
Wickham Lodge Telegraph -	50	54	20	1	9	1	W	Woolverhampton Spire	52	34	54	2	7	10	W
Widworthy -	50	47	1	3	6	10	W	Wordeslow Hill -	54	51	3	1	25	6	W
Willen Steeple -	52	2	17	0	39	57	W	Workington Chapel -	54	38	34	3	33	30	W
Wilton Beacon -	53	59	54	0	45	29	W	Worm's Head -	51	33	56	4	18	56	W
Wimborne Steeple -	50	47	59	1	58	52	W	Wrekin (The) -	52	40	11	2	31	30	W
Wincanton Steeple -	51	3	20	2	24	16	W	Yartcombe -	50	52	22	3	4	34	W
Winchester Cathedral	51	3	40	1	18	26	W	Yelling Spire -	52	15	16	0	9	19	W
Winckley Steeple -	50	51	22	3	55	48	W	Yeovil Steeple -	50	56	34	2	37	1	W
Wing Steeple -	51	53	49	0	43	3	W	Yetminster Steeple -	50	53	40	2	34	6	W
Wingrave Steeple -	51	51	47	0	44	8	W	Ynaliog Mountain	52	48	41	4	43	30	W
Winslow Steeple -	51	56	34	0	52	40	W	Ynys Gadarn -	53	22	9	4	14	15	W
								Ynystraeth Bychan -	53	21	32	4	12	35	W
								York Minster -	53	57	48	1	4	34	W
								York Spire -	53	57	30	1	4	28	W
								Zeal Monachorum -	50	49	4	3	48	23	W

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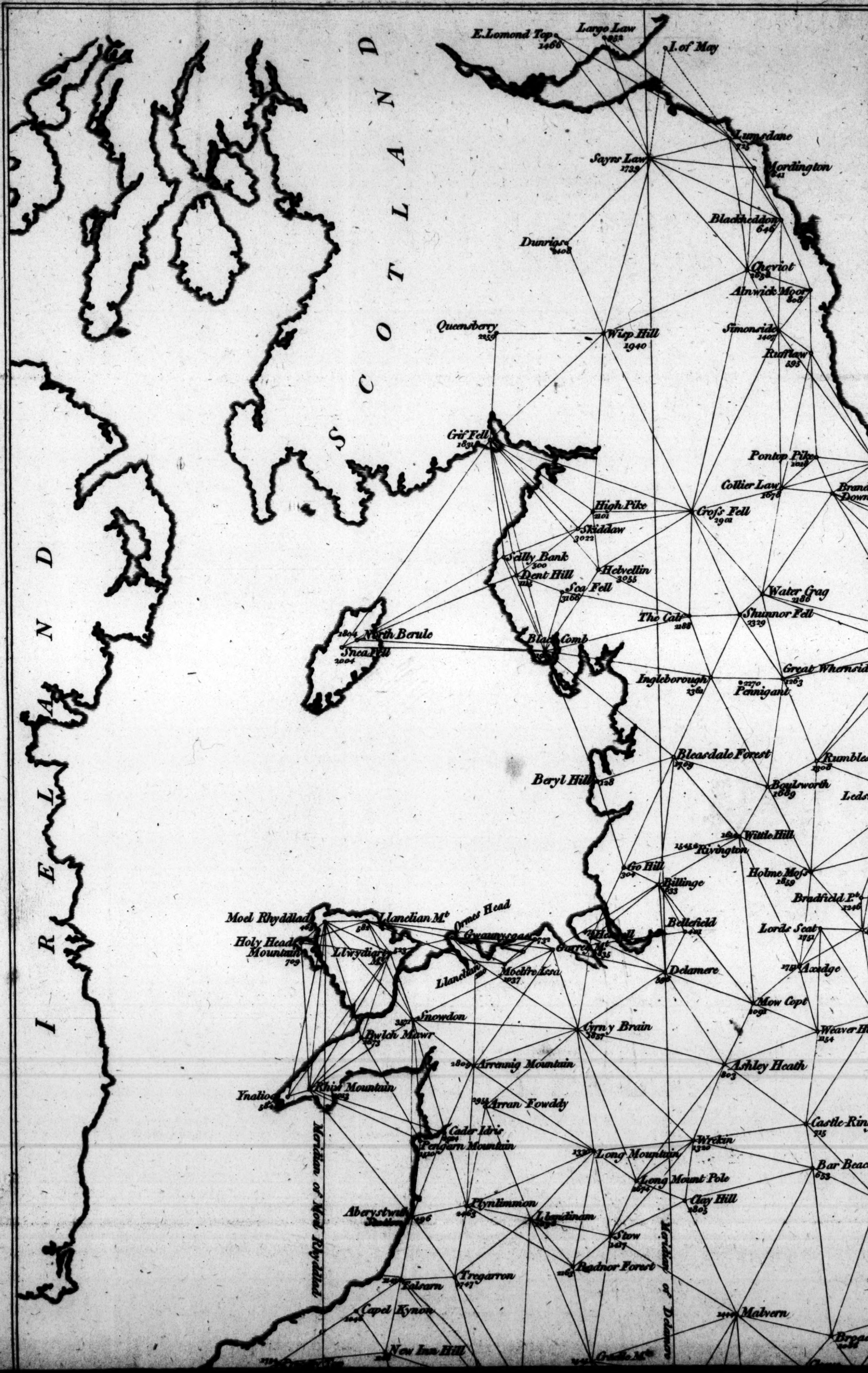
Cleveland-row, St. James's.

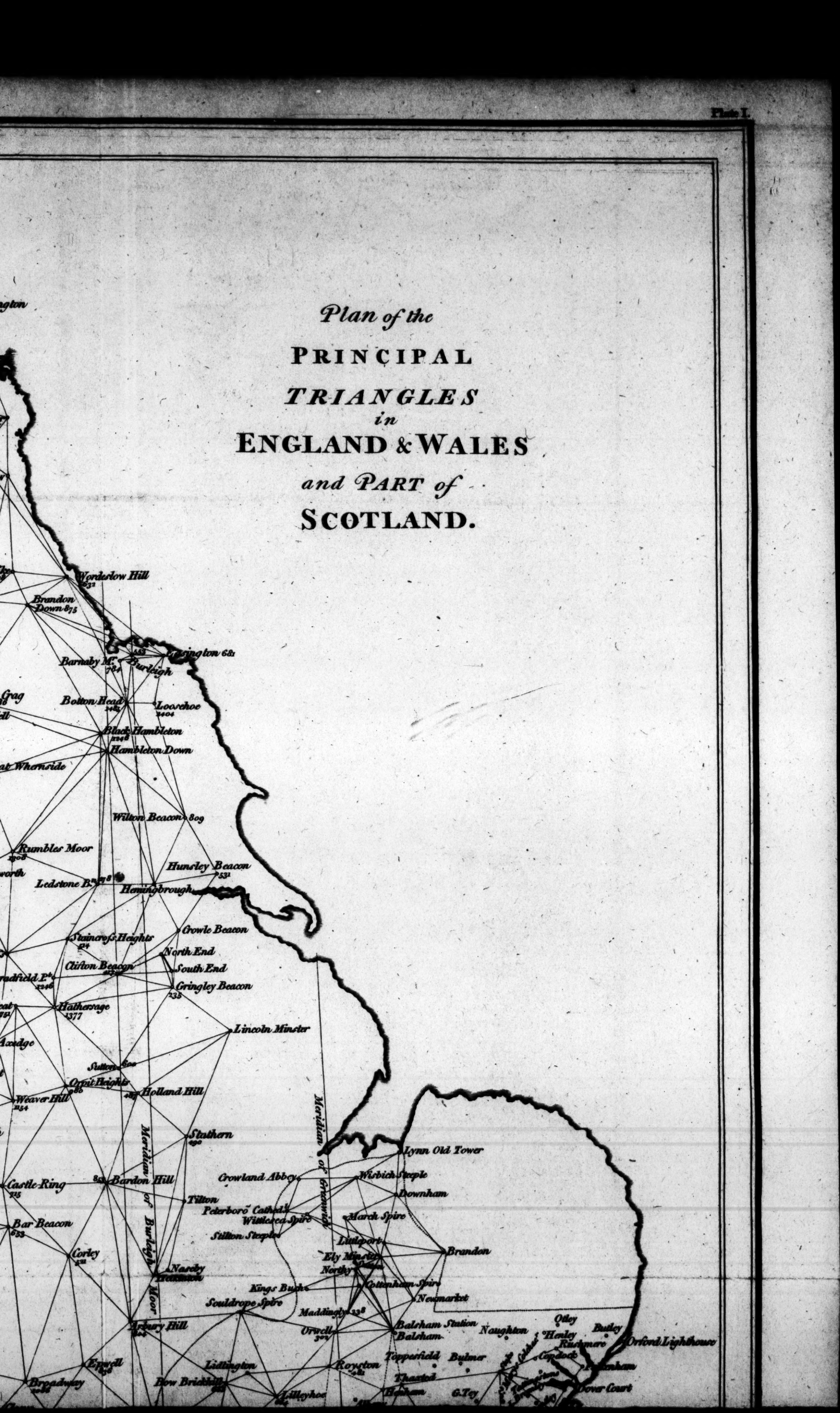
ERRATA.

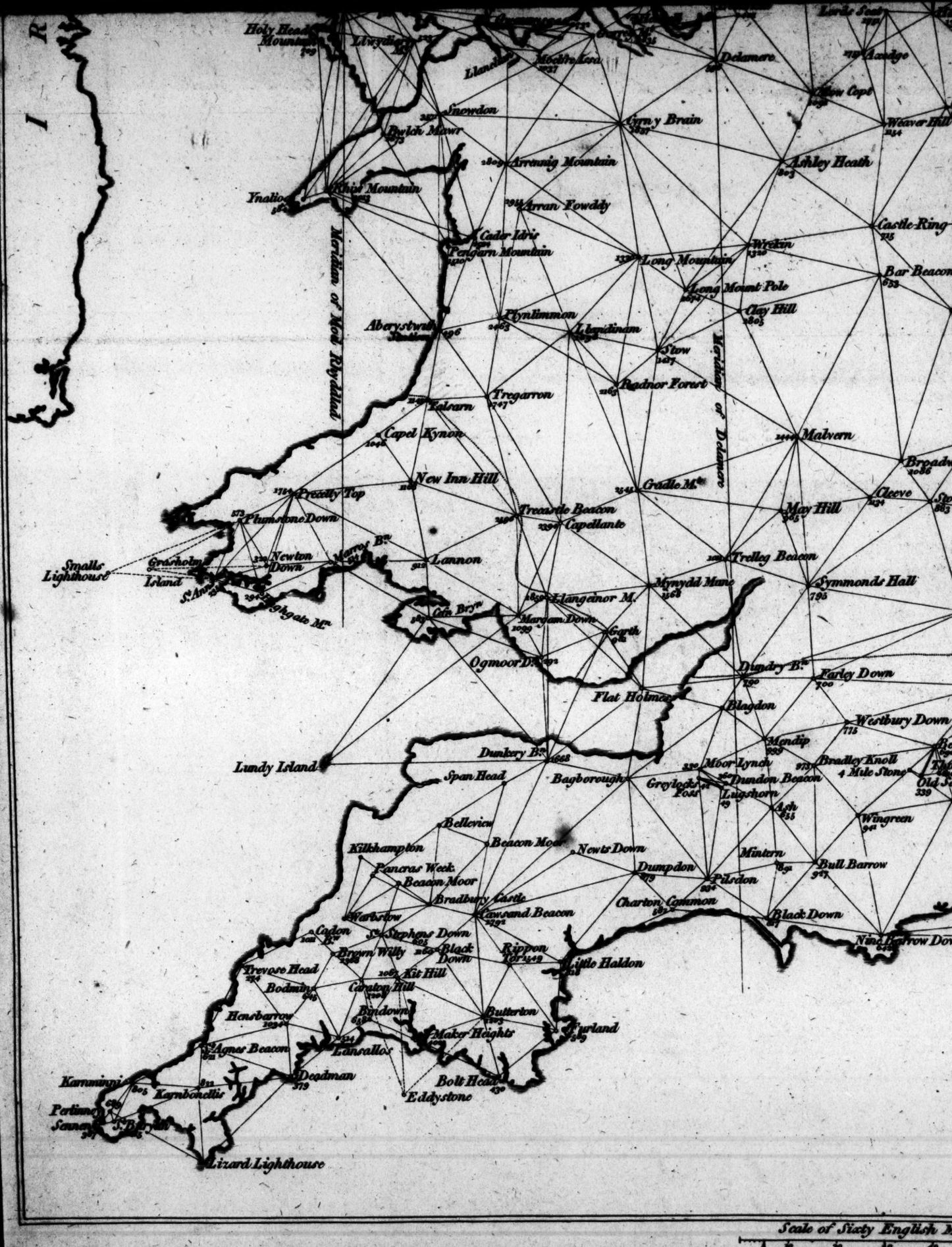
Page 89, *Triangle* 17, Sides and Angles inverted.
—— 135, *Triangle* 213, *for* 148740, 1 *read* 168740,1.
—— 160, and 161, *for* Puncheston, *read* Castle Baith.
—— 170 *Triangle* 16, *put* 58 3 4 a line lower.
—— 171, *Triangle* 15, *for* 37030, *read* 57030.
—— 174, *Triangle* 14, invert the sides.
—— 175, *Triangle* 12, *for* 44769, *read* 41799.
—— 177, *Triangle* 17, *for* 50136, *read* 50178.
—— 178, *Triangle* 7, *for* 255855 *read* 254680, *and Triangle* 14, *for* 154994, *read* 158603.
—— 189, *for* Plate 2, *read* Plates 2 and 3.
—— 283, *Triangle* 7, *for* 46632, *read* 46525.
—— 305, *line* 10, *for* Dundry, *read* Dunkery; also Dundry Beacon, 790.
—— 339, *line* 23, *for* 14129 S, *read* 14129 N.
—— 346, *line* 4, *for* 118350, *read* 11835.
—— 348, *line* 21, *for* 44466 W, *read* 44466 E.
—— 360, *line* 4, *for* 883329, *read* 88329.
In the pagination of Signature T t, *for* 349, &c., *read* 321, &c.

BRITISH MUSEUM

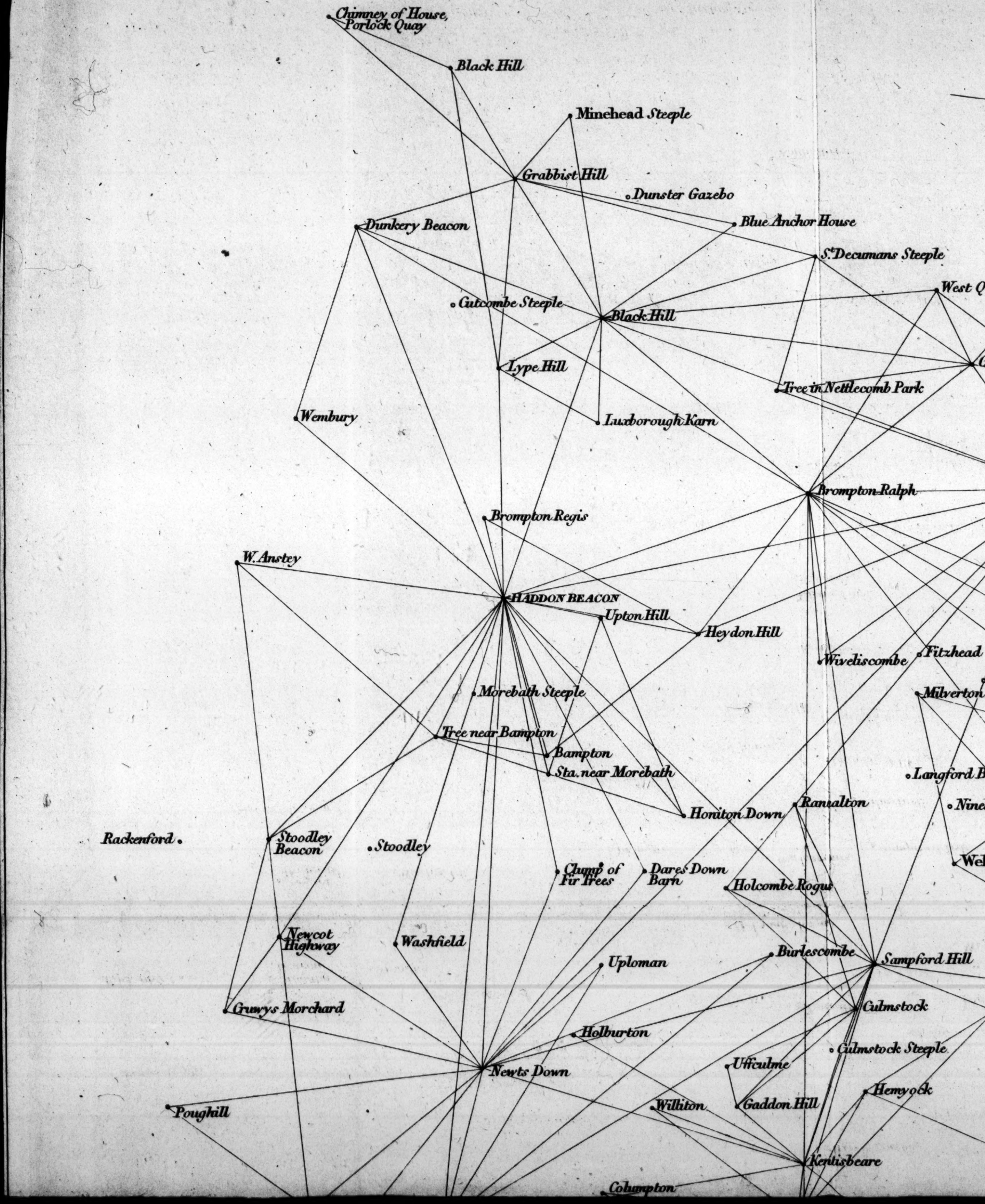

E. Lomond Top
1468
Largo Law
1052
I. of May
Lumsdane
Sayns Law
1729
Mordington
Blackheddon
646
Dunrigs
Cheviot
Alnwick Moor
Queensberry
Wisp Hill
1940
Simonside
1409
Ruffaw
Grif Fell
Pontop Pike
Collier Law
1670
High Pike
2101
Cross Fell
2901
Skiddaw
3022
Scilly Bank
300
Dent Hill
Helvellin
3055
Sca Fell
3166
Water Crag
North Berule
Black Comb
The Cat
Shunnor Fell
2329
Ingleborough
Pennigant
Great Whernside
Bleasdale Forest
Beryl Hill
Boulsworth
Leeds
Wittle Hill
Rivington
Go Hill
Holme Moss
Billinge
Bradfield P.
Moel Rhyddlad
Llanclian Mt.
Ormes Head
Holy Head Mountain
Llwydiarth
Bellefield
Lords Seat
Mochtre Less
Delamere
Axedge
Snowdon
Cyrn y Brain
Mow Cop
Pwlch Mawr
Arrennig Mountain
Ashley Heath
Ynalion
Rhiel Mountain
Arran Fowddy
Cader Idris
Penigarn Mountain
Wrekin
Long Mountain
Castle Rin
Bar Beac
Long Mount Pole
Clay Hill
Aberystwith
Plynlimmon
Llanidinam
Stow
Meridian of Mod Rhyddlad
Meridian of Delamere
Radnor Forest
Tregarron
Talgarn
Capel Kynon
New Inn Hill
Malvern
Brpp
IRELAND
SCOTLAND

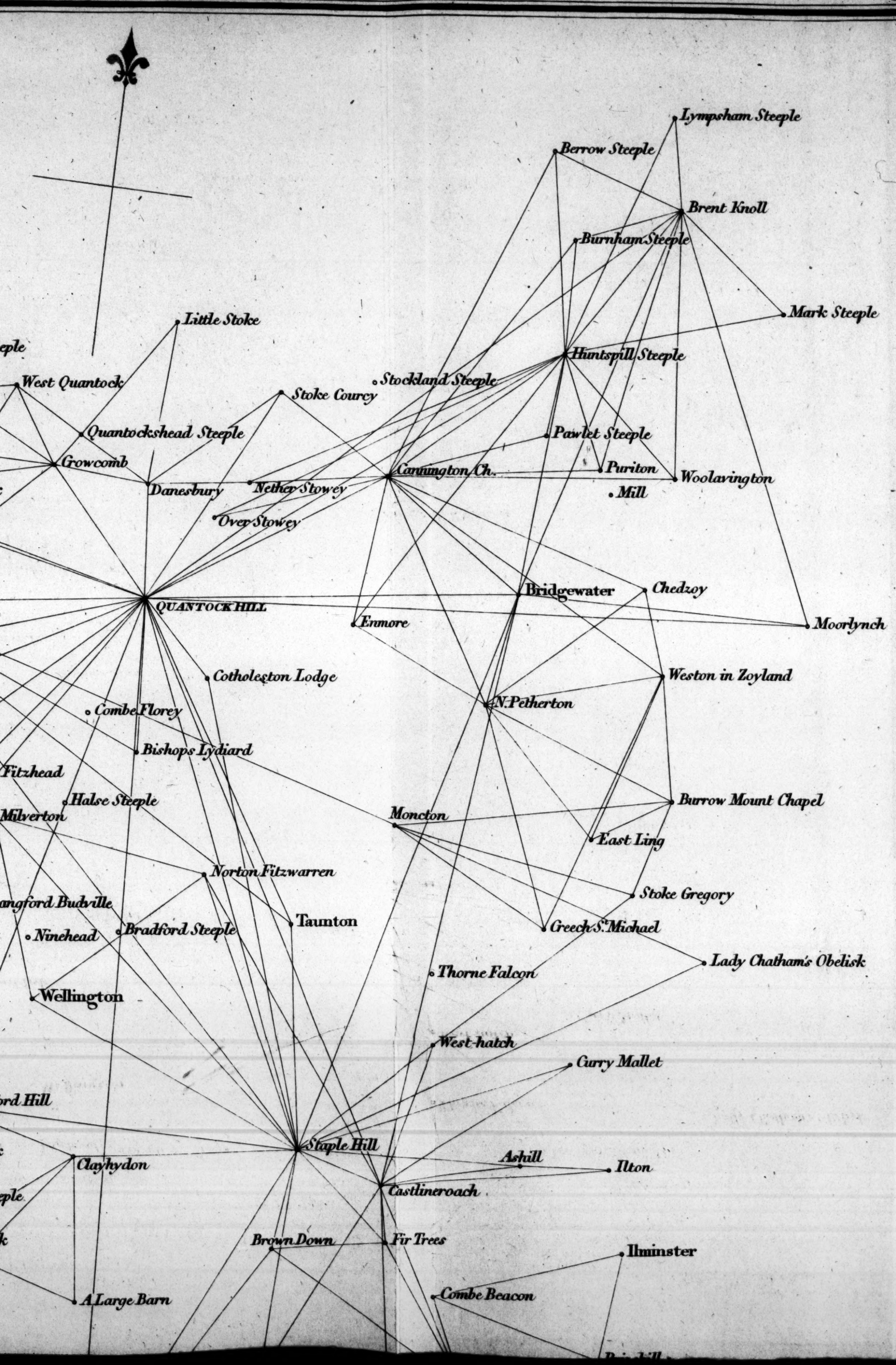
Plan of the PRINCIPAL *TRIANGLES in* ENGLAND & WALES *and PART of* SCOTLAND.




Holy Head Mountain
Llanidan
Mochdre
Delamere
Snowdon
Cyrn y Brain
Weaver Hill
Arrennig Mountain
Ashley Heath
Ynalion
Rhiel Mountain
Arran Fowddy
Castle Ring
Cader Idris
Penigarn Mountain
Wrekin
Long Mountain
Bar Beacon
Long Mount Pole
Clay Hill
Aberystruth
Plynlimmon
Llanidinam
Meridian of Mold Rhydlad
Meridian of Delamere
Stow
Radnor Forest
Tregarron
Talcarn
Capel Kynon
Malvern
New Inn Hill
Gradle M.
Precelly Top
Treasdle Beacon
Capellante
May Hill
Cleeve
Plumstone Down
Smalls Lighthouse
Granholm Island
Newton Down
Lannon
Trelleg Beacon
Mynydd Mane
Symmonds Hall
Glangelnor M.
Margam Down
Garth
Ogmoor D.
Dundry B.
Farley Down
Flat Holmes
Blagdon
Westbury Down
Mendip
Lundy Island
Dunkery B.
Moor Lynch
Bradley Knoll
4 Mile Stone
Span Head
Bagborough
Greylock
Dundon Beacon
Lugshorn
Ash
Wingreen
Bellevieu
Beacon Moor
Kilkhampton
Newts Down
Mintern
Pancras Week
Dumpdon
Bull Barrow
Beacon Moor
Pilsdon
Bradbury Castle
Charton Common
Warbstow
Cawsand Beacon
Black Down
Cadon
St. Stephens Down
Brown Willy
Black Down
Rippon Tor
Little Haldon
Trevose Head
Kit Hill
Bodmin
Caratoc Hill
Hensbarrow
Bindown
Butterton
Fairland
St Agnes Beacon
Maker Heights
Lansallos
Deadman
Bolt Head
Kannanipit
Kemboodlis
Eddystone
Perlinny
Scanny
St Berryan
Lizard Lighthouse
Scale of Sixty English

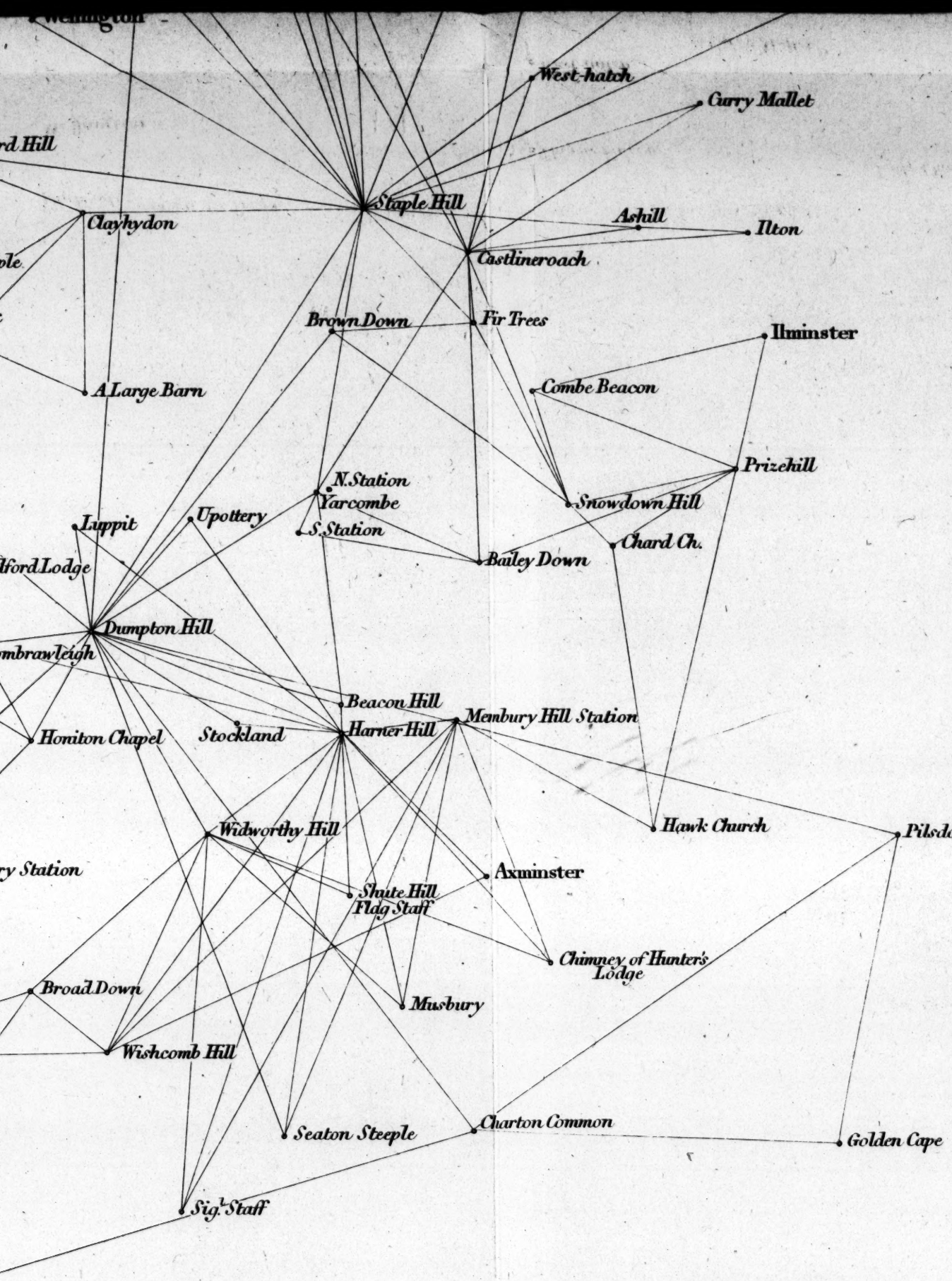
Lincoln Minster
Holland Hill
Meridian of Burleigh Moor
Meridian of Greenwich
Lynn Old Tower
Wisbich Steeple
Downham
March Spire
Brandon
Newmarket
Balsham
Balsham Station
Naughton
Otley
Henley
Butley
Orford Lighthouse
Topperfield
Bulmer
Royston
Thaxted
Braintree
Dover Court
Harwich
Danbury
Tillingham
Canewdon
Hollingborne
Dover Castle
Calais
Blancnez
Fienne
Montlambert
Beachy Head
Dunnose
Mottestone
Arbury Hill
Broadway
Bow Brickhill
Lilleyhoe
Kinsworth
Brill
Wendover
Nuffield
White Horse Hill
Hampstead
Hanger Hill
Bagshot
Highclere
Beacon Hill
Hind Head
Butser Hill
Leith Hill
Botley Hill
Wrotham
Hundred Acres
Norwood
Hatfield Broad Oak
Barkhamst.
Nasing
Epping
Highbeach
Pen
Stanmore
Kings Arbour
Kings Bushe
Souldrope Spire
Maddingly
Orwell
Lidlington
Stow on the Wold
Tilton
Peterboro' Cathedl
Wittlesea Spire
Stilton Steeple
Crowland Abbey
Nasby
Corley
Bar Beacon
Castle-Ring
Bardon Hill
Stathern
Weaver Hill
Orgit Height
Sutton
Ely Minster
Northy
Cottenham Spire
Littleport
Ditchling B.
Chanctonbury
Rook Hill
Frant
Tenterden
Growborough
Brightling
Fairlight Down
High Nook
Swingfield Ch.
Paddlesworth
Folkestone
Shorncliff
Sandgate
Hythe
Saltwood
Newington
Ospringe
Faversham
Teynham
Sittingbourne
Milton
Rochester
Gadshill
Halstead
Ightham
Otford
Wrotham
Farnborough
Keston
Bromley
Lewisham
Deptford
Greenwich
Woolwich
Plumstead
Erith
Dartford
Crayford
Bexley
Foots Cray
Sidcup
Chislehurst
Footscray
Eltham
Lee
Blackheath
Charlton
Shooters Hill
Kidbrook
Lewisham
Peckham
Camberwell
Dulwich
Norwood
Croydon
Addington
Bromley
Beckenham
Penge
Sydenham
Forest Hill
Lewisham
Deptford
Greenwich
Woolwich
Plumstead
Erith
Dartford
Crayford
Bexley
Foots Cray
Sidcup
Chislehurst
Footscray
Eltham
Lee
Blackheath
Charlton
Shooters Hill
Kidbrook
Peckham
Camberwell
Dulwich
Norwood
Croydon
Addington
Beckenham
Penge
Sydenham
Forest Hill
FRANCE
English Miles.
0 10 20 30


Chimney of House, Porlock Quay
Black Hill
Minehead Steeple
Grabbist Hill
Dunster Gazebo
Blue Anchor House
Dunkery Beacon
S.t Decumans Steeple
West Q
Gutcombe Steeple
Black Hill
Lype Hill
Tree in Nettlecomb Park
Wembury
Luxborough Karn
Brompton Ralph
Brompton Regis
W.t Anstey
HADDON BEACON
Upton Hill
Heydon Hill
Wiveliscombe
Fitzhead
Morebath Steeple
Milverton
Tree near Bampton
Bampton
Sta. near Morebath
Langford B
Ranialton
Nine
Honiton Down
Rackenford
Stoodley Beacon
Stoodley
Clump of Fir Trees
Dares Down Barn
Holcombe Rogus
Wel
Newcot Highway
Washfield
Uploman
Burlescombe
Sampford Hill
Culmstock
Gruwys Morchard
Holburton
Culmstock Steeple
Ufculme
Newts Down
Hemyock
Poughill
Williton
Gaddon Hill
Kentisbeare
Columpton


Lympsham Steeple
Berrow Steeple
Brent Knoll
Burnham Steeple
Mark Steeple
Little Stoke
Huntspill Steeple
West Quantock
Stockland Steeple
Stoke Courcy
Quantockshead Steeple
Pawlet Steeple
Growcomb
Cannington Ch.
Puriton
Woolavington
Danesbury
Nether Stowey
Mill
Over Stowey
Bridgewater
Chedzoy
QUANTOCK HILL
Enmore
Moorlynch
Cotholeston Lodge
Weston in Zoyland
N. Petherton
Combe Florey
Bishops Lydiard
Fitzhead
Halse Steeple
Burrow Mount Chapel
Milverton
Moncton
East Ling
Norton Fitzwarren
Stoke Gregory
Taunton
Greech S. Michael
Ninehead
Bradford Steeple
Lady Chatham's Obelisk
Thorne Falcon
Wellington
West-hatch
Curry Mallet
Staple Hill
Ashill
Ilton
Clayhydon
Castlineroach
Brown Down
Fir Trees
Ilminster
A Large Barn
Combe Beacon

Clump of Fir Trees
Dares Down Barn
Holcombe Rogus
Newcot Highway
Washfield
Uploman
Burlescombe
Sampford Hill
Gruwys Morchard
Culmstock
Holburton
Culmstock Steeple
Ufficulme
Newts Down
Hemyock
Poughill
Williton
Gaddon Hill
Kentisbeare
Columpton
Cadbury Castle
Wherry Farm
Christcross
Upcot Pen
Bradninch
Woolford Lodge
Hembury Fort
Clisthydon
Combrawleigh
Newton S.t Cyrus
Bramford Speke
S.t Lawrence Clyst
Stoke Cannons
Spraydown
Tallaton
Honit
Eleven Acres
Whitestone
Whitestone Steeple
Honiton Clyst
Rockbeare
North Ottery Station
West Ottery Station
EXETER
Heavitree
Sourton
Aylesbeare
Broa
Alphington
South Ottery
Shillingford
Exminster
Topsham
Palks Tower
Woodbury
Salcombe
HALDON Old Station
Kenn Steeple
Woodbury Hill Summer Ho.
Haldon New Sta.
Lympsham
Otterton Steeple
Powderham
Obelisk
Exmouth Chapel
Woodbury Sig.l Staff
Dawlish
LIT. HALDON
Holcombe Down

Scale of Miles Three to
Furlongs 1 2 3 4



TRIANGLES

for the SURVEY *of*

the Eastern Part of

DEVON.

Three to One Inch.

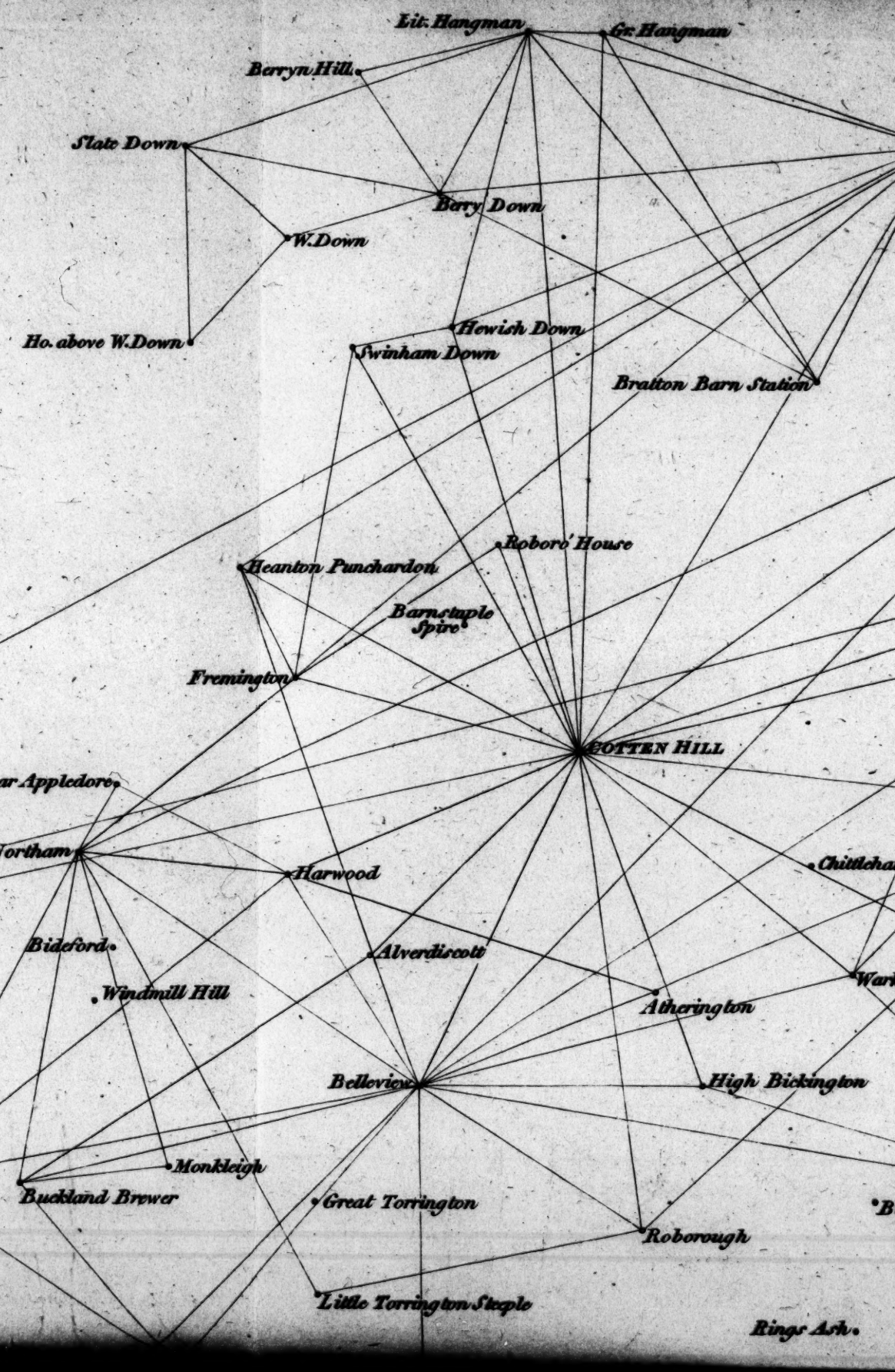
4 5 6 7 8 9

TRIANGLES

for the SURVEY *of*

the WESTERN PART *of*

DEVON.



DUNKERY BEACON
Parracombe
Barrow
Dudlam
Ashton Hill
SPAN HEAD
Wembury Barrow
N. Molton Ridge
HADDON BEACON
Molland Down
North Molton
East Anstey
Castle, Castle Hill
South Molton
Knowstone
Chittlehampton
Mary Anstleigh
Satterleigh Garcbo
Warkleigh
Warnford Hill
Kingsnympton
Meshaw Moor Barrow
BEACON MOOR
Witheridge
Burrington
Thelbridge
Chumleigh
Charleigh
Puddington

Mooly Down
Crimp Down
Sutcombe
Shebbear
Petrock Stowe
Meeth
Iddesleigh
Kilkhampton
Holsworthy Beacon
Sheepwash
Hatherleigh
High Hampton Steeple
Sampford Station
Pancras Week
BEACON MOOR
Holsworthy
Beaworthy
Bridgerule
Pyeworthy
North Lowe
BRADBURY CASTLE
Belland Down
North Tamerton
Tetcott
Week S.t Mary
Ashwater
Bratton Clovelly
Sourton Tor
Chapmanswell
Boyton
Broadwoodwidger Steeple
North Petherwin
WARBSTOW BEACON
S.t STEPHENS
Lifton Steeple
BLACK DOWN
Bare-head
Brent Tor
Lewannick
Cocks Tor
Morwell Down
Calstone Down

Lapford
West Morchard
Christeross
Coleridge
Winkley
Downe S.t Mary
North Tawton
Whitestone Station
Spreyton Steeple
EXETER
Oakhampton Steeple
CAWSAND BEACON
Cranbrook Castle
Palks Tower
Marcedon
G.t HALDON
Tes Tor
Chagford Steeple
Blackingstone Rock
New Station
Ashton Hill
Castor Rock
Pleasure House Hill
Obelisk
Siddaford Tor
Chudleigh
Cut Hill
Hamilton Down
East Down
LIT. HALDON
RIPPON TOR
Heles Down
Gr.t Mis Tor
Ashburton Down
Halls Down
Hessary Tor
Cooks Beacon
Ashburton Steeple
Denbury
Ryders Hill
Tarcarn Station
Slops Tor

Lewannick

Cocks Tor

Morwell Down

Calstone Down

KIT HILL

Hurlstone

CARRATON HILL

Beverton Down

Stray Hill

Wilsey Station

St. Budeaux

BIN DOWN

MAKER HEIGHTS

Scale of Miles Three to One Inch

Furlongs 1 2 3 4 5 6 7 8

Heles Down
Gr.t Mis Tor
Ashburton Down
Hessary Tor
Halls Down
Cooks Beacon
Ashburton Steeple
Denbury
Ryders Hill
Tarcarn Station
Slops Tor
Maridon Beacon
Totness Steeple
Willman Hill
Station near Pen Beacon
3 Barrow Tor
Brent Ruins
Station near Totness
East Beacon
Square Close
Cornwood
BUTTERTON HILL
Station near Dartmouth
Station near Dittisham
FURLAND
Hemerdon Ball
Ugborough
Horner Down
Higher East Close
Morelcigh Station
Barrington
Black Auton
Holland Hill
Beacon Park
Black Down
Ermington
Modbury
Wallaton Cross
Loddeswell
Woodleigh Steeple
Station near Yealmpton
Buckland Tout Saints
Kingston Steeple
Newton Down
Bigbury Spire
Church Stowe Steeple
Station near D.o
Kingsbridge Spire
W.Allington Steeple
Gonnor Down
West Down
Charleton Steeple
Beacon Hill
Thurlestone
near S.Milton
S.Pool
near S.Pool
S.Huish
Huish Station
Chivelstone
Marlborough
Salcombe
Portlemouth
Sig.l Staff Start P.t
BOLT HEAD

CADON BARROW

TREVOSE H.d

S.t Minver

Endellion

S.t Teath

Advent or S.t Tane

S.t Minver Mill

S.t Kew

S.t Bruard

S.t Tudy

S.t Mabyn

Carbilley Tor

Ox Tor

S.t Breock Beacon

Brocka Barrow

Council Barrow

Bellarmines Tor

BODMIN DOWN

Carburrow

Bury Tower

Warleggon

Bodmin Beacon

Lanivet Station

Castle Kenyoc

Crowland Cross

Roach Ch.

Rock

Barrow-on Four Barrow Hill

Helmen Tor

Barrow-on Carloddon Down

HENSBARROW

Restormel Castle

Nighton Sta.

Lanlivery

Lostwithiel

Luxulian Steeple

S.t Winnowe Sta.

Carngrey Rock

Great Priddeaux Warren

Bury Down

S.t Blazey

Castle Dor

Red Warehouse

Castle Dor Station

S.t Veep

Potrium

Grebar H.d

Lantaglos Barrow

Lansallos

Looe Stat

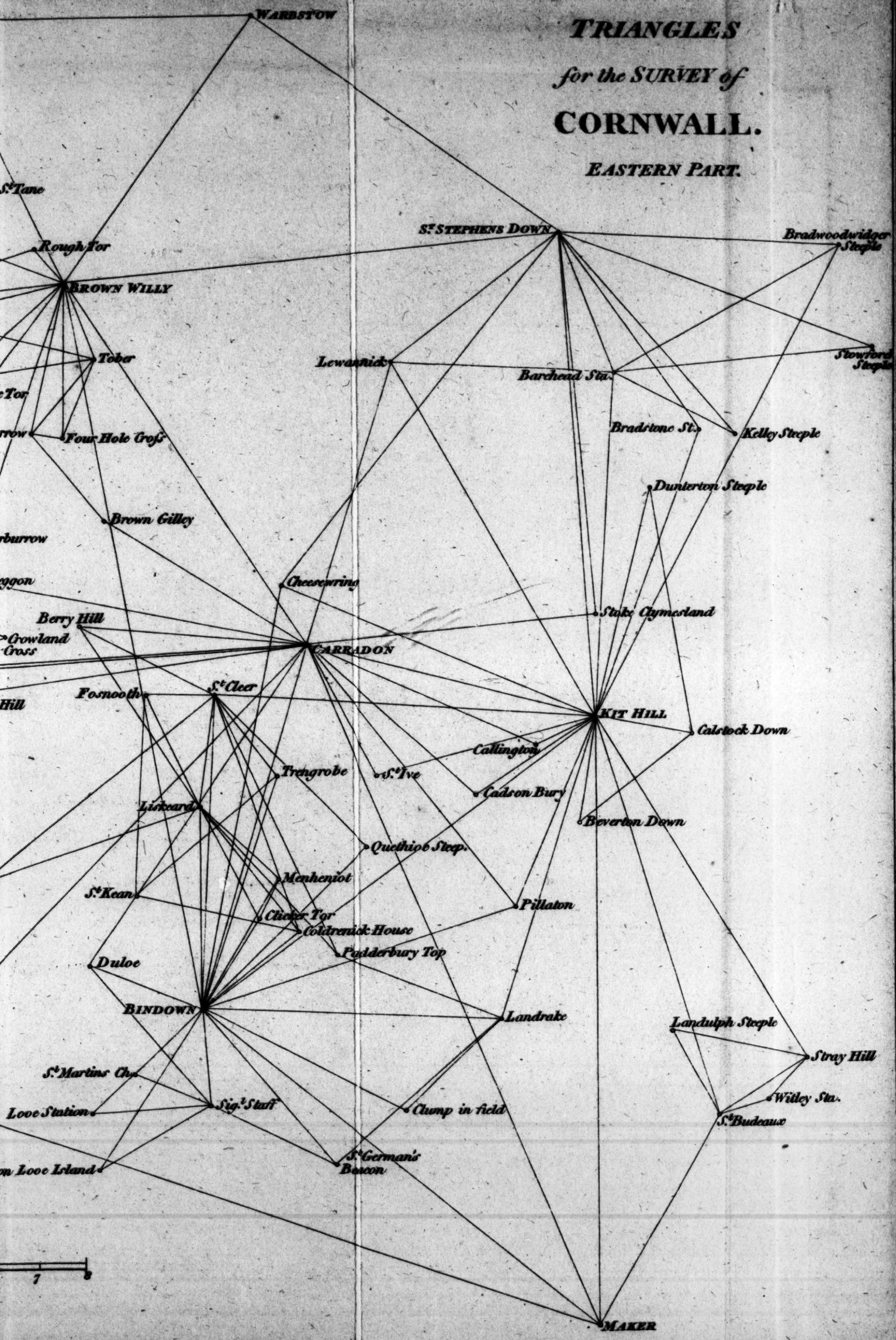
House on Looe Isl

Scale of Miles Three to one Inch.

Furlongs 1 2 3 4 5 6 7

DEADMAN

TRIANGLES
for the SURVEY of
CORNWALL.
EASTERN PART.



TRIANGLES

for the SURVEY *of the*

Western part of

CORNWALL.

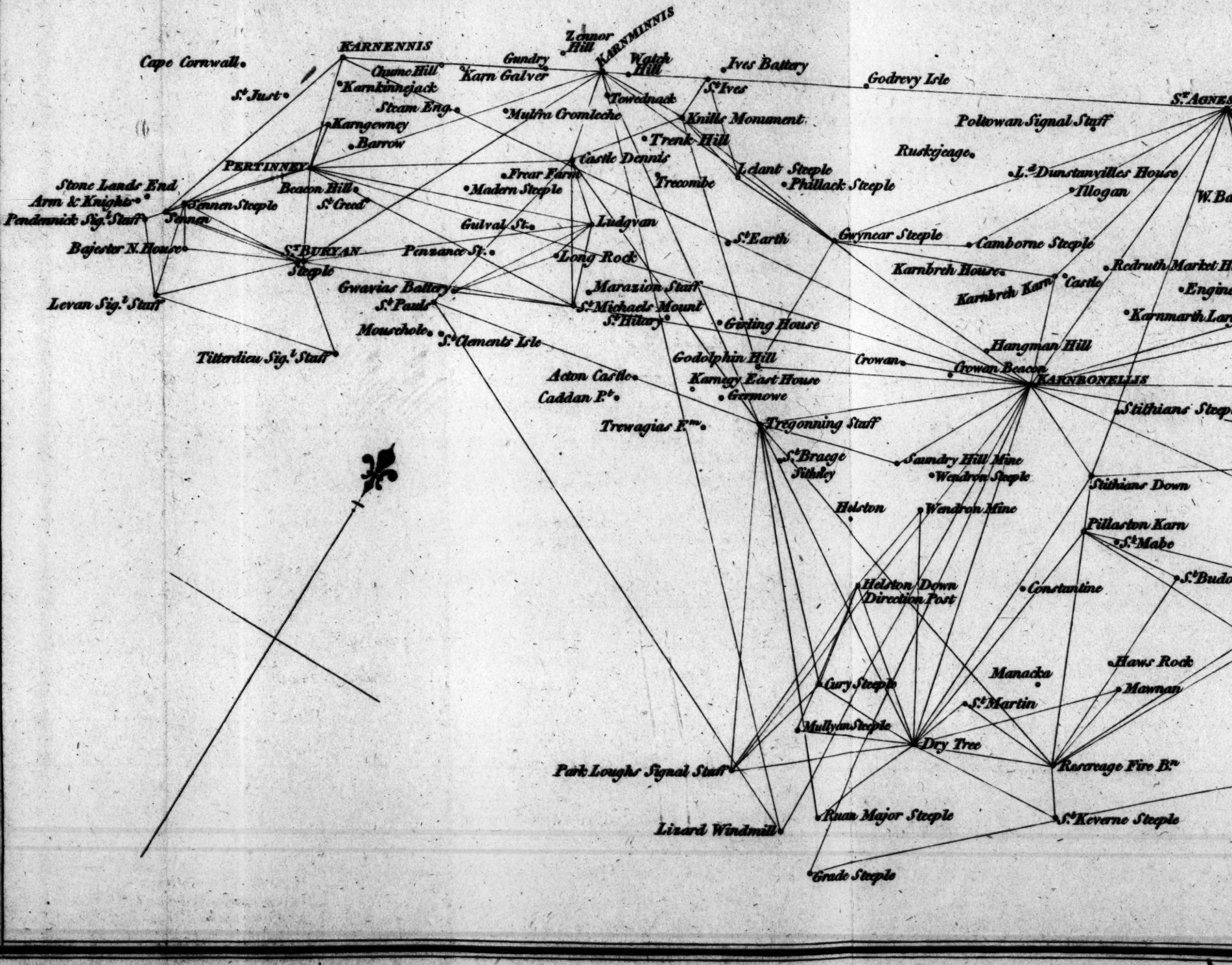


Plate V

Trevose Head
St Eval Steeple
Carter's Rock
Mawgan Rock
St Columb Minor
Barrow
St Breock's Stone
Cubert Spire
St Columb Major
St Agnes
St Agnes Steeple
St Wenne Steeple
Newlin Steeple
Castle Ann Dennis
Perran Steeple
Belovely Barrow
Michaels Down
St Enedore Steeple
BODMIN DOWNS
W. Barrow Down
North Barrow
St Dennis Steeple
St Allen Steeple
Trevidown
St Roach
Engine Ho.
St Erme Steeple
3 Mile Stone Truro Road
Ladock Steeple
HENSBARROW
St Stephens
Kenwyn Steeple
Old Watch Barrow
St Probus Steeple
Unanimity Mine
Trewithen House
St Austle Steeple
Barrow near Admiral Sprys Plantation
St Michael Penkeville
Tregoney Steeple
Penrice
Menabilly House
St Budock Steeple
St Michael Carhais
St Teath Windmill
Veryan Beacon
St Goran Steeple
LLANSALLOS
Gerrance Spire
Pendennis Cast.
Gwinear Rock
St Anthonys Head
DEADMAN
Sig.l Staff

Scale of Miles. Four to One Inch.

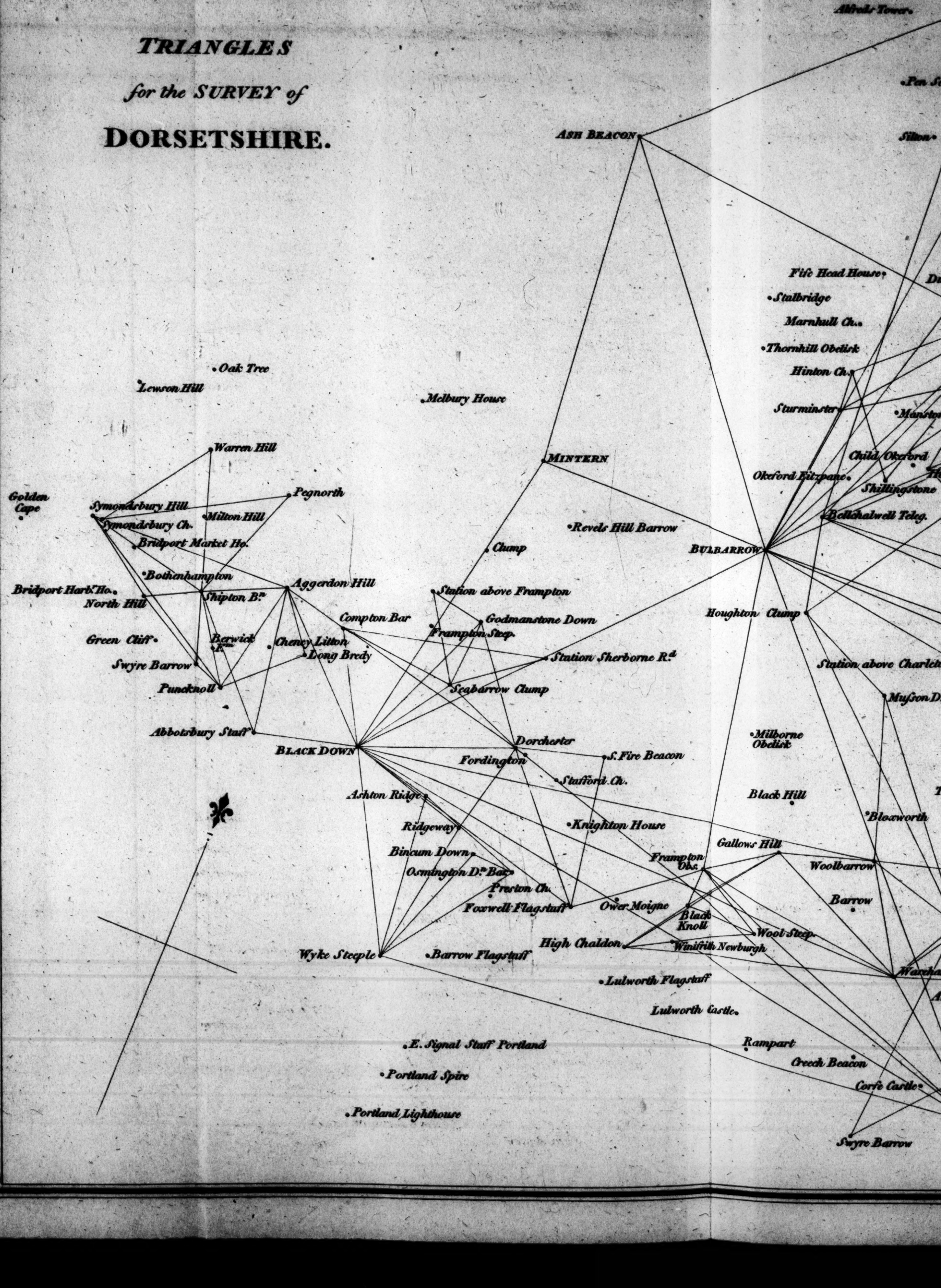
Furlongs 1 2 3 4 5 6 7 8 9 10 11

St Ann's Summer House and St Agnes Beacon are so near each other that they cannot both be shewn on this Scale.

TRIANGLES

for the SURVEY *of*

DORSETSHIRE.



BRADLEY KNOLL
Stour Head Obelisk
Pen Selwood Ch.
Mere Ch.
Silton
West Knoyle
E. Knoyle Windmill
E. Knoyle Ch.
Gillingham Spire
Fonthill Abbey
Chilmark
Ridge Hill Clump
House
Pit House
Semley Ch.
Kingsettles
Ticklepath Hill
Duncliffe Hill
Wardour Castle
Castle Ditches
Trinity Ch.
Compton Hut Clump
Clump East
White Sheet Barrow
Barrow
7 Mile Stone
Melbury Hill
Windmill Hill
WINGREEN
Winklebury Obelisk
Manwood Clump
Direction Post
Marston
Tolland Clump
Oxford
Iwerne
Hamilton Hill
Illingstone
Handley Ch.
Pentridge Hill
Gaishmoor Windmill
Direction Post
Blandford Teleg.
Twiss Barrow
Blandford Ch.
Granborne
Bushbury Hill Barrow
Summer House
Hawton N. Inn
Pistle Down Teleg.
Chalbury Teleg.
Hawton Gazebo
Badbury Rings
Trenchard's Tower
Wimborne
Cannon Hill
David's Hut
Barrow
Lytchet Beacon
Summer Ho.
Gibbet
Station Wimborne Road
Blackhill
Constitution Hill
Wareham
Poole Ch.
Macsbarrow
Signal House
Poole Heath
Arne Clump
Lilliput House
House. Decoy Ponds
Brownsea Castle
Christ Church
NINE BARROW DOWN
Old Harry
Studland
BEACON HILL
4 Mile Stone
Old Sarum
Thorney Down
Salisbury Spire
White Farm House
Inn
Clebury Rings
Ayres Summer Ho.
DEAN HILL
Gallows Hill Clump
Fordingbridge
Branshaw Teleg.
Heathcotes Pillar
Moils Court Sum.r House
Ringwood Ch.
Lyndhurst Ch.

Scale of Miles Four to One Inch.
Furlongs 1 2 3 4 5 6 7 8 9 10 11

TRIANGLES

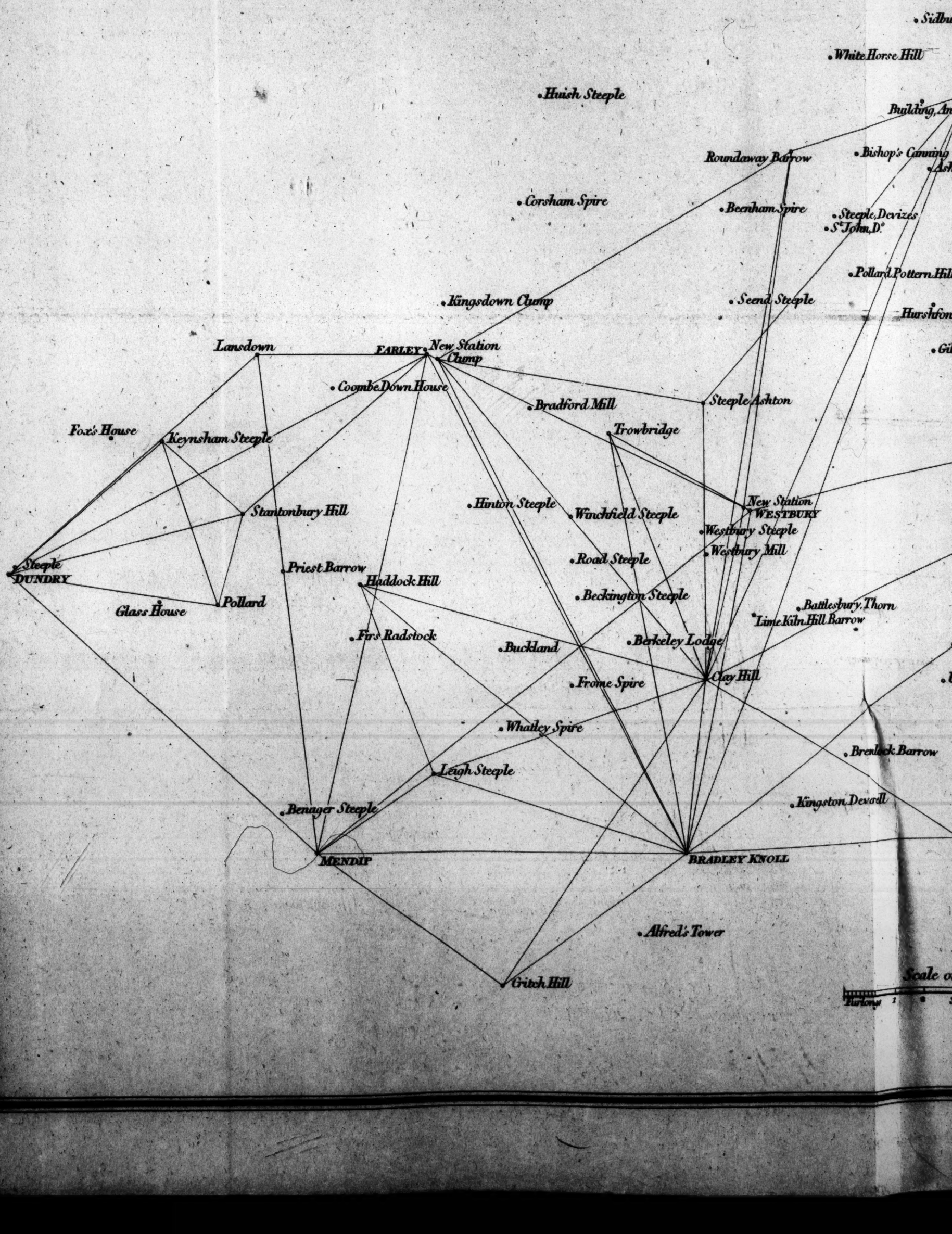
for the SURVEY *of*

HAMPSHIRE,

Part of WILTSHIRE,

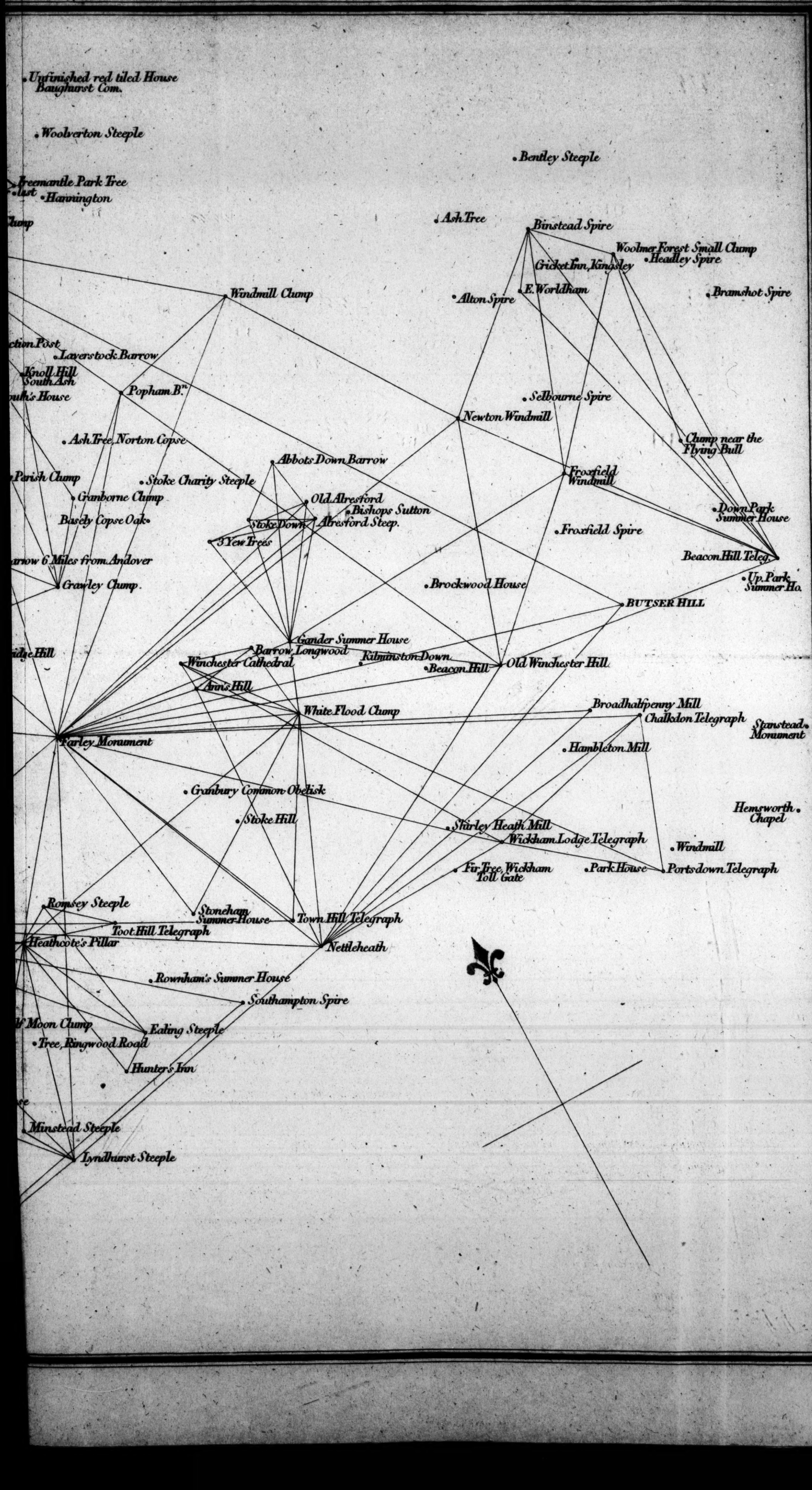
and Part

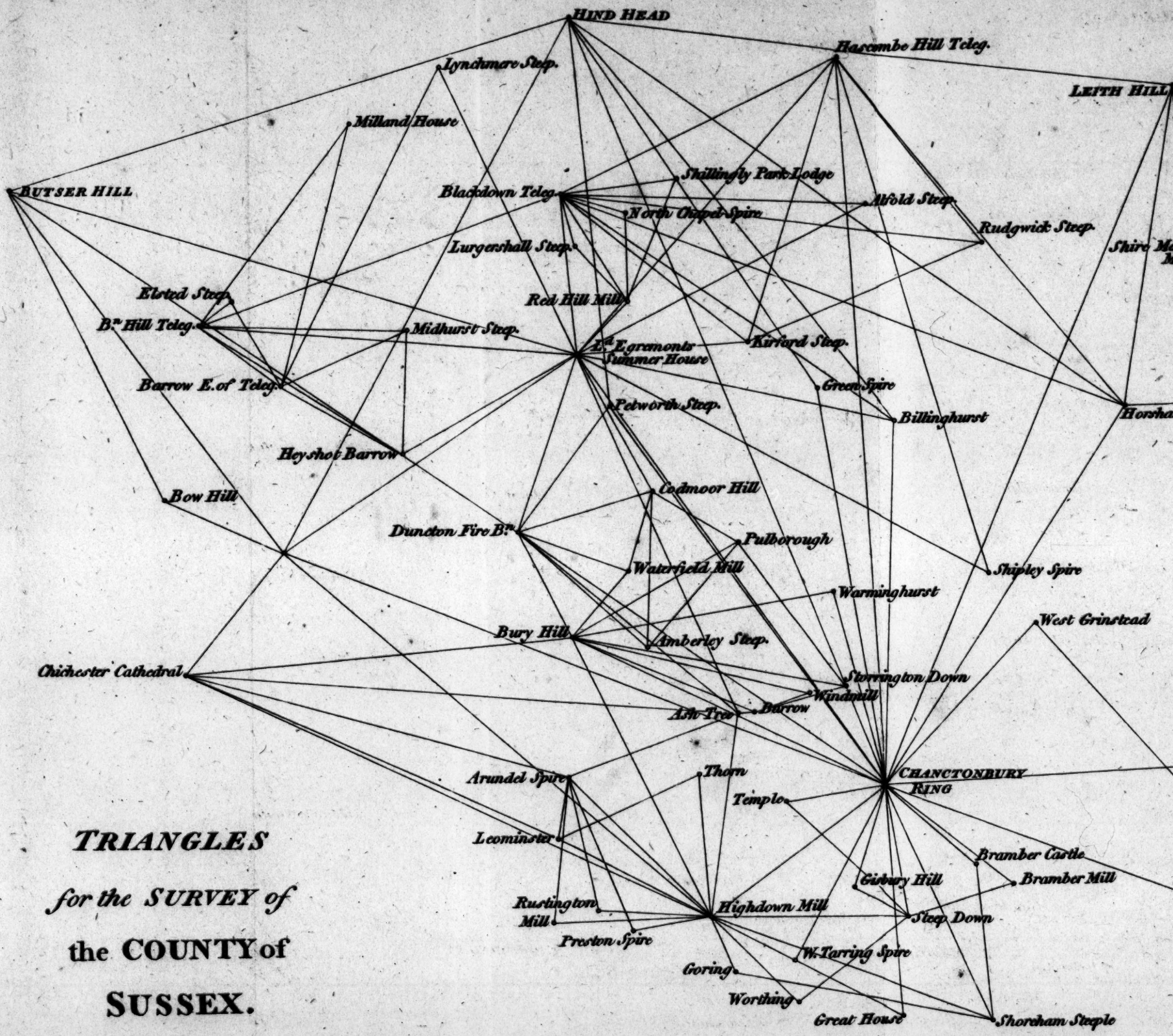
of SOMERSETSHIRE.



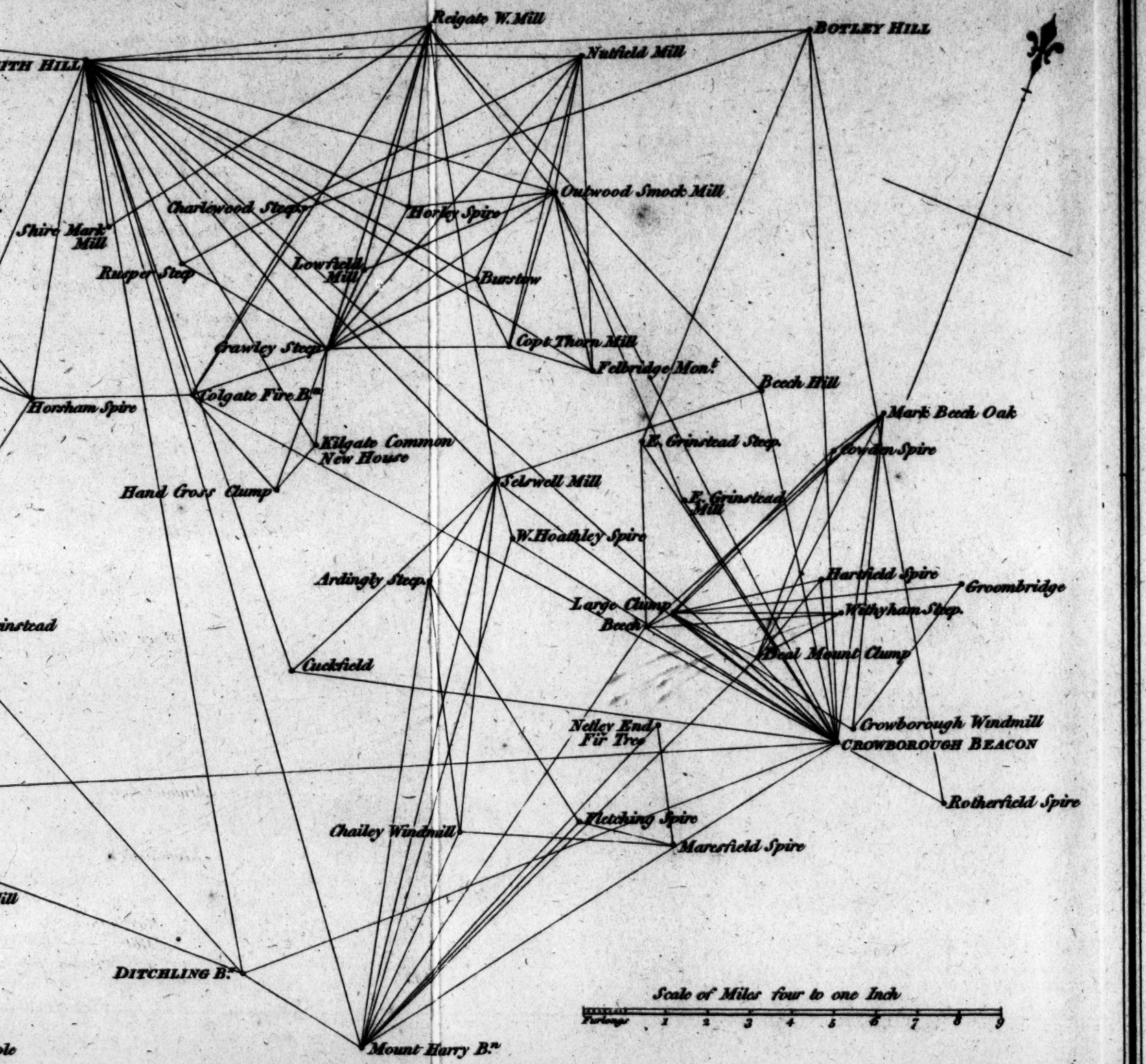
Donnington Castle
Newbury Steeple
Greenham Direction Post
Unfinished red
Baughurst Com
Enborne Steeple
Woolverton St
Kinthury Steeple
White House
Hungerford
Ash Tree Station
Up. Ogbourn Barrow
Freemantle Park Tre
Carnarvon's Temple
Tree near last
Hannington
Itchingswell Mill
Little Bedwin
Gibbet
Walbury Camp
Inkpin Beacon
Highclere B.
Burghclere Camp
Totterdown Clump
Marlborough Steeple
Great Bedwin
Buttermire, or Ham Hill
Sidown Bar.
Ash Tree Station
Buttermire Clump
L.d Elbury's Monument
Summer House
Directim Post
Laverstock
Sidbury Barrow
Heydon Hill Clump
Stoke Mill
Knoll Hill
South Ash
Thorn
Tidcombe D.
Ash Tree
Conholt Lodge
Tangley Clump
Uphurstborne Mill
Summer House
Pewsey Mill
Barrow, Chute Down
L.d Portsmouth's House
Easton Clump
Chute Down Ash
Chute Steeple
Milk Hill Thorn
Lodge
Building, Ann's Hill
Pewsey Steeple
Wilcot Hill
Collingborne Mill
Long Parish Clump
Granborne
Ashington Steeple
Everley Steeple
Andover
Everley Mill
Windmill Hill
Weyhall Steeple
Barrow
Busely Copse
Uphaven Dn. Clump
Direction Post
Chidbury Bar.
Kimpton Mill
Clatford Steeple
Bury Hill Clump
Barrow 6 Miles from And
Amport Steeple
Grawley Clump
Pottern Hill
Red Horn Clump on Barrow, near Toll Gate
Thruxton Tree
Grateley Steeple
Barrow
Hurshfont Hill Barrow
Gibbet Knoll
Elbarrow
Barrow
Danesbury Camp
Stockbridge Hill
Beacon Hill
Knighton Long Barrow
Neath Barrow
Mallets Grove
Farley Moram
Stone Henge
Amesbury Steeple
Maddington Mill
Lake Clump
Chittern Mill
Druid's Head
Pollard
Pustle Lodge
Cadbury Beech
Thorn
Stone Yarnsbury Castle
4 Mile Stone
Barrow above Steeple Langford
Romsey Steeple
Codford Station
DEAN HILL
Gravely Camp, highest P.t
Codford Church
Heathcote's Pillar
Barn, Ditchampton
Salisbury Spire
White Parish Steeple
Wilton Steeple
Upton Barrow
Ayres Summer House
Barford Steep.
W. Compton Hut
Clebury Rings
Half Moon Clump
Clump, Compton Hut
Tree, Ringwood Ro
Downton
19 Mile Stone
Clump, Ridge Hill
Branshaw Telegraph
Maze Hill
M.r Harben's House
Stony Cross Inn
Minstead Steeple
Font-hill Abbey
Lyndhurst
Ringwood Steeple

Scale of Miles. Four to One Inch.
1 2 3 4 5 6 7 8 9 10 11


Unfinished red tiled House
Baughurst Com.
Woolverton Steeple
Bentley Steeple
Freemantle Park Tree
last
Hannington
lump
Ash Tree
Binstead Spire
Woolmer Forest Small Clump
Headley Spire
Cricket Inn, Kingsley
Windmill Clump
E. Worldham
Alton Spire
Bramshot Spire
ction Post
Laverstock Barrow
Knoll Hill
South Ash
uth's House
Popham B.n
Selbourne Spire
Newton Windmill
Ash Tree, Norton Copse
Clump near the
Flying Bull
Abbots Down Barrow
Parish Clump
Stoke Charity Steeple
Froxfield
Windmill
Granborne Clump
Old Alresford
Bishops Sutton
Down Park
Summer House
Basely Copse Oak
Stoke Down
Alresford Steep.
Froxfield Spire
3 Yew Trees
Beacon Hill Teleg.
arrow 6 Miles from Andover
Up. Park
Summer Ho.
Brockwood House
Crawley Clump.
BUTSER HILL
Gander Summer House
idge Hill
Barrow Longwood
Kilmiston Down
Winchester Cathedral
Beacon Hill
Old Winchester Hill
Ann's Hill
Broadhalfpenny Mill
White Flood Clump
Chalkdon Telegraph
Stanstead
Monument
Farley Monument
Hambleton Mill
Granbury Common Obelisk
Hemsworth
Chapel
Stoke Hill
Sturley Heath Mill
Wickham Lodge Telegraph
Windmill
Fir Tree, Wickham
Toll Gate
Park House
Portsdown Telegraph
Romsey Steeple
Stoneham
Summer House
Town Hill Telegraph
Toot Hill Telegraph
Heathcote's Pillar
Nettleheath
Rownham's Summer House
Southampton Spire
f Moon Clump
Ealing Steeple
Tree, Ringwood Road
Hunter's Inn
Minstead Steeple
Lyndhurst Steeple



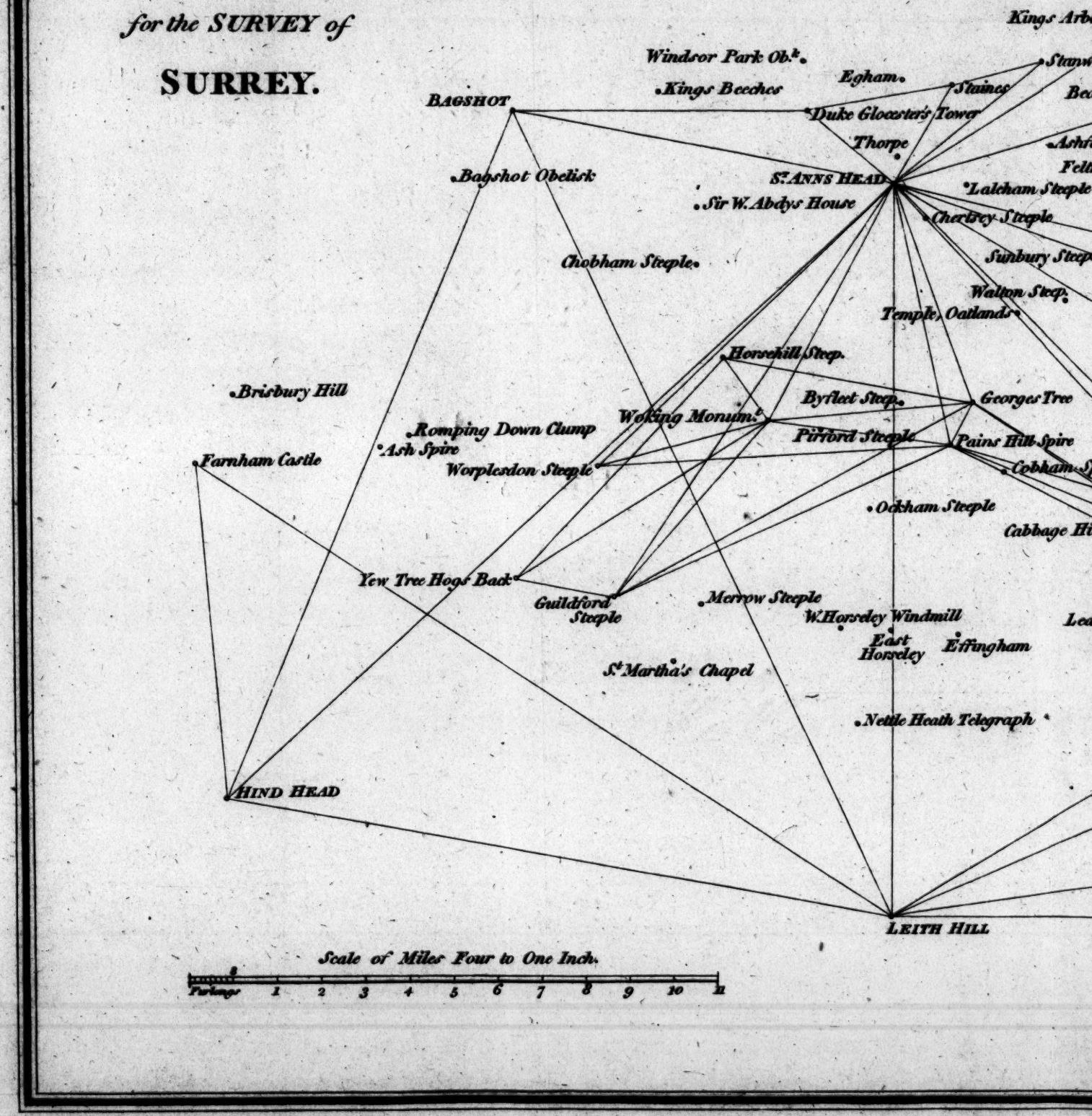
TRIANGLES
for the SURVEY of
the COUNTY of
SUSSEX.


Reigate W.Mill
BOTLEY HILL
Nutfield Mill
Outwood Smock Mill
Charlewood Steep
Horley Spire
Shire Mark Mill
Rusper Steep
Lowfield Mill
Burstow
Copt Thorn Mill
Crawley Steep
Felbridge Mon.t
Beech Hill
Tolgate Fire B.n
Horsham Spire
Mark Beech Oak
Kilgate Common New House
E. Grinstead Steep
Covden Spire
Hand Cross Clump
Selsfield Mill
E. Grinstead Mill
W.Hoathley Spire
Ardingly Steep
Hartfield Spire
Groombridge
Large Clump
Withyham Steep
Beech
Beal Mount Clump
Cuckfield
Nutley End Fir Tree
Crowborough Windmill
CROWBOROUGH BEACON
Rotherfield Spire
Fletching Spire
Chailey Windmill
Mansfield Spire
DITCHLING B.n
Mount Harry B.n
Scale of Miles four to one Inch
Furlongs 1 2 3 4 5 6 7 8 9

TRIANGLES

for the SURVEY *of*

SURREY.



Harrow Spire
Kings Arbour
HANGER HILL
Stanwell Spire
Bedfont
Primrose Hill
Spring Grove House
Ashford Spire
Richmond Obs.
Argyle Street Obs.
Feltham Spire
Kew Pagoda
St. Pauls
Star & Garter Inn Richmond
Hampton Poor House
Fulham Steeple
Hampton Steeple
W. Moulsey
Kingston
Mr. Cavendish's House
Combe Ho.
Wimbledon Spire
Brixton Mill
Greenwich Observatory
Cockcrow Hill
Streatham Spire
Ellis's Summer House
Sydenham Common
Maldon Steep.
Severndroog Castle
Mitcham
Holly Okeshut Warren
NORWOOD
House
Yewell Steep.
Sutton
Beckingham
Beddington
Carshalton Mill
Croydon Steeple
Epsom Spire
HUNDRED ACRES
Bromley
Chislehurst Spire
Leatherhead Steeple
Banstead Pollard
BANSTEAD
Banstead Spire
Beggars Bush
Combehurst
Sanderstead
Headley
Knockholt Beeches
Coulsdon Spire
Golden Square
Tatesfield
BOTLEY HILL

TRIANGL

for the SURVE

MIDDLES

and

HERTFORDS

ROYSTON

Lillington

Steeple Morden

Gilden Morden

Clay Hill Bush

Potton Steeple

Hinxworth

Everton Steeple

Telegraph

Baldock

Datchworth

Sandon Spire

Biggleswade

Stevenage Spire

Willien Steep.

Blunham Steep.

Longford

Tree

Knebworth

Henlow

North Hill Steeple

Hitchin Windmill

Codicote Steeple

South Hill Steeple

Warden Steep.

Shefford

Warden Lodge

Meppershall

Great Offley

Shillington

Clophill

Higham Gobion

LILLEYHOE

St. Peters

Pollard

Luton

Ampthill

LIDLINGTON

Caddington Steeple

Kensworth Steeple

KENSWORTH

Gaddesden

Milton Bryant

Little Gaddesden

Scale of Miles. Four to One Inch.

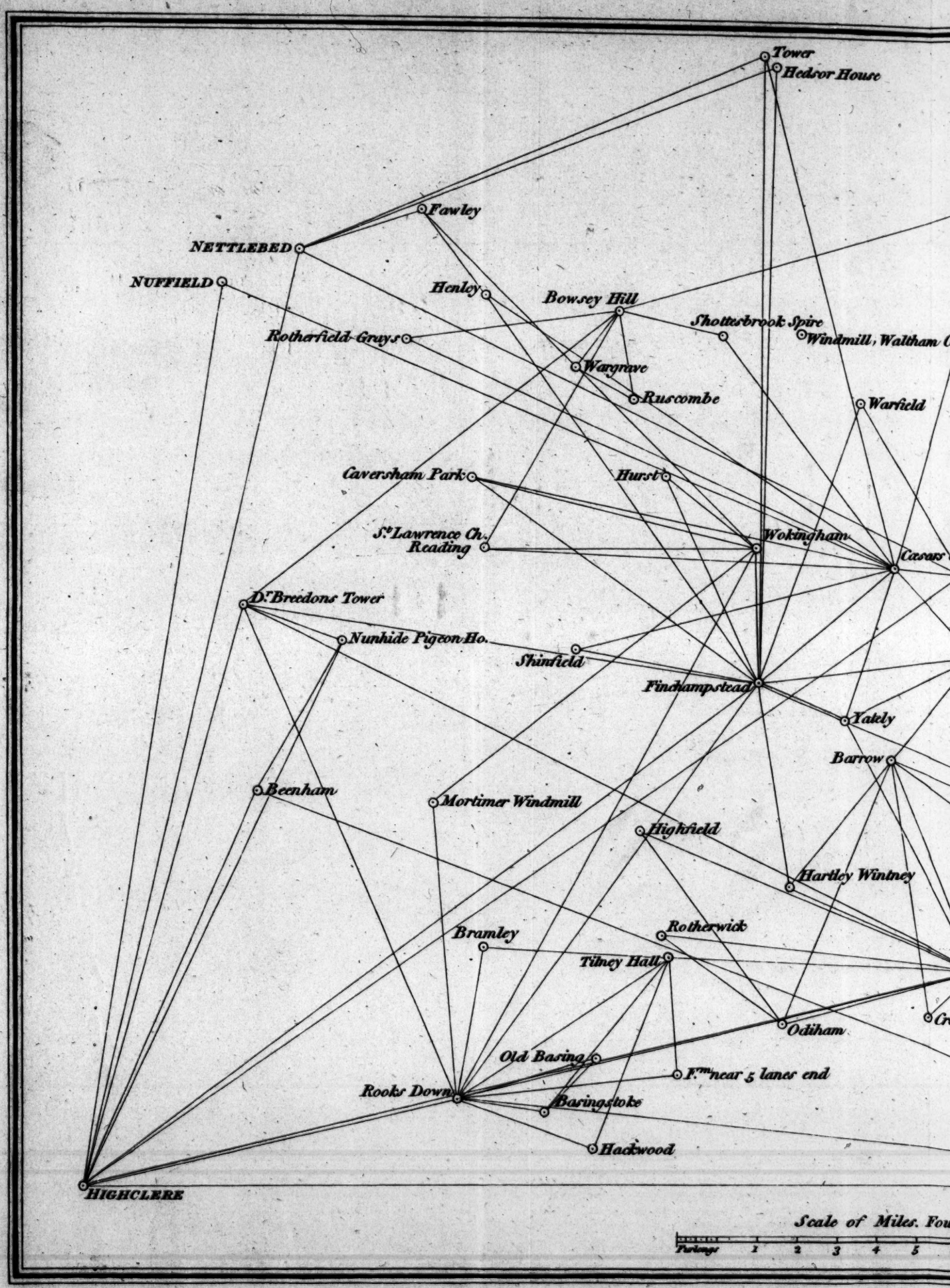
Furlongs 1 2 3 4 5 6 7 8 9

BOWBRICK HILL

ANGLES
URVEY of
OLESEX
and
ORDSHIRE.

Neasdon Spire
Highbeech
Edmonton
Berkhampstead Gazebo
Enfield Ch.
Tottenham
Enfield Mill
Whites Barn
Essendon
Hornsey Hill
North Haw Mill
Hornsey Steep.
St. Pauls
Hatfield Ch.
Highgate Chapel
Poole House
Direction Post
Hadley
Finchley Lodge
Barnet
Primrose Hill
North Mims
Hampstead Station
Totteridge
South Mims
Hampstead Spire
Paddington Chapel
Ridge Ch.
Hampstead Mill
Hill End
Hendon Steeple
Wilsdon Ch.
St. Peters St. Albans
Elstree
Lit. Stanmore
Gr. Stanmore
Acton
Sty Hill
Bushey Sta.
Aldenham
HANGER HILL
STANMORE
Ealing
Harrow Spire
Bushey
Abbots Langley
Watford Spire
Pinner
Hythe Farm
Kings Langley
Hemel Hempstead
Gadsden Place
Ruislip
Rickmansworth
Hayes Steeple
Tickenham
Bovington Lodge
Hillingdon
Uxbridge
Cheneys
Iver

8 9 10


Tower
Hedsor House
Fawley
NETTLEBED
NUFFIELD
Henley
Bowsey Hill
Shottesbrook Spire
Windmill, Waltham
Rotherfield Greys
Wargrave
Ruscombe
Warfield
Caversham Park
Hurst
St. Lawrence Ch. Reading
Wokingham
Casars
D.r Breedons Tower
Nunhide Pigeon Ho.
Shinfield
Finchampstead
Yately
Barrow
Beenham
Mortimer Windmill
Highfield
Hartley Wintney
Bramley
Rotherwick
Tilney Hall
Odiham
Old Basing
F.m near 5 lanes end
Rooks Down
Basingstoke
Hackwood
HIGHCLERE
Scale of Miles. Fou
Furlongs 1 2 3 4 5

TRIANGLES
for the SURVEY *of*
Part of SURREY
and PART *of*
BERKSHIRE.

Windsor Castle
, Waltham Common
St. Anns Hill
Warfield
Casars Camp
BAGSHOT
Norris's Obelisk
tely
Frimley Chapel
w
Leith Hill
Ash Station
Ash Church
intney
34.th Mile Stone
Farnham Beacon
Crondall
HIND HEAD

Miles. Four to One Inch.

4 5 6 7 8 9 10 11 12

W

E

S

Cardigan Island

Rock near Trecvon Fr.

Barrow near Pantsyon

Sunken Rock

Dinas Head

Mr. Jones's Sun

Carnyngley Rock

Pencarn

Nipple Rock

Mr. Mathias's House in Fishgard

Foclary Barrow

Flat Barrow

Garn Rock

Castle Baith Barrow

Priscilly Forest

Old Windmill

Mock Steeple

Penberry Rock

Trefigarn Rock

Llacithy Rock

Northmost of the Bishop & his Clerks

PLUMSTONE DOWN

St. Davids Cathedral

Rudbaston Ch.

Wiston Ch.

Highest point of the Scrabs

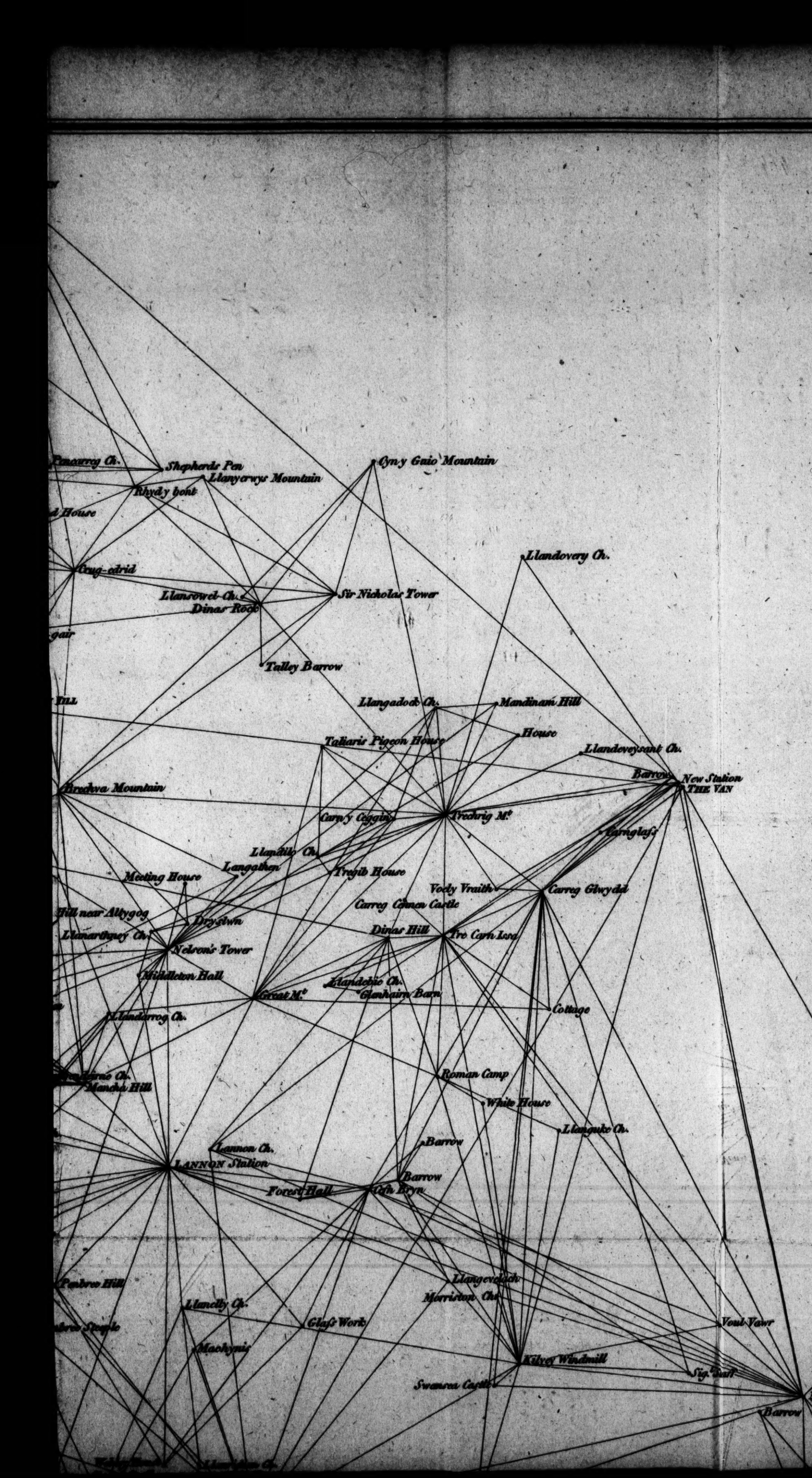
Rock Castle

Highest point of Ramsey I.

St. Thomas's Ch. Haverfordwest

Minwear Ch.

TALLEGEN
House
Moelfre
Pen y Voel
Dyhewydd
Llandissilio Head
CAPEL KYNON
Quarry Pits
Penvoel Hodog
Pencarreg Ch.
Shepherd
Llanwenog
Rhyd y beht
Highmead House
Hill near Mount Ch.
Blaenporth Ch
Bettws Evnon
Alderbrook Hall
Pile on Moor
Ferwig Ch.
Warren Bank
Pen coedvod
Llanlwny
Craig-edrid
Llanrowel
Cardigan Steeple
Pantsyon
Gilgerran Castle
Craig-gair
Llanihangel Penbedw Ch.
Finone House
Kilwendague
Penboir Ch.
NEW INN HILL
Moelfre Barrow
Middle Barrow
Craig moch
Jones's Summer House
Brogin Vach
Barrow, entrance of Moor
Brecheva Mountain
Brogin Fawr
Direction Post
Craig-wan
Foel Dregarn
House
Meeting House
Grigidwy
PRECELLY TOP
Llanwinio Ch.
Barrow South of Cyn Wyl
Hill near Altygog
Llanarthney Ch.
Nelson's
Penlan House
Abergwili Ch.
Middleton Hall
Maendochog Ch.
Llangolman Ch.
House W. End of Caxton
St Pleasant Station
Llandarrog Ch.
Llandissilio Ch.
Llangain Ch.
Llan House
Llanginning Step
Llangynog M.
Manchia Hill
Llandevaelog Ch.
Llanihangel Abercowyn
Old Castle
Station in a Hedge
Laugharne Ch.
Llanstephan Castle
LANNON
Roberton Wathan Ch.
Llanraint Hill
Tavernspite Inn
Sir Johns Hill House
Llanraint Steeple
Newton Ch.
Minwear Ch.
Ludchurch
Penbree Hill
MARROS Station
Lovesdale Church
Begelly Ch.
Penbree Steeple


Shepherds Pen
Llanycrwys Mountain
Rhydy bont
Cyn y Gaio Mountain
Llandovery Ch.
Craig-edrid
Llansowel Ch.
Dinas Rock
Sir Nicholas Tower
Talley Barrow
Llangadock Ch.
Mandinam Hill
House
Taliaris Pigeon House
Llandeveysant Ch.
Barrow
New Station
THE VAN
Brecheva Mountain
Carn y Coggin
Trechrig Mt.
Carnglas
Llanddu Ch.
Langathen
Tregib House
Meeting House
Vocly Vraith
Carreg Gwrydd
Carreg Cennen Castle
Hill near Altygog
Drysiwn
Llanarthney Ch.
Dinas Hill
Tre Carn Issa
Nelson's Tower
Middleton Hall
Llandebie Ch.
Glanhairn Barn
Great Mt.
Cottage
Llandarrog Ch.
Roman Camp
Manchu Hill
White House
Llangunic Ch.
Barrow
Llannon Ch.
LANNON Station
Barrow
Forest Hall
Ath Eryn
Llangevelach
Morriston Ch.
Penbrey Hill
Llandly Ch.
Glass Work
Voul Vawr
Machynis
Kilvey Windmill
Sig.l Staff
Swansea Castle
Barrow

TRIANGLES

For the SURVEY

of PART OF

SOUTH WALES.

Scale of Miles Four to One Inch.

Furlongs 1 2 3 4 5 6 7 8 9 10 11 12

LLANGEINOR

Carn Vawr

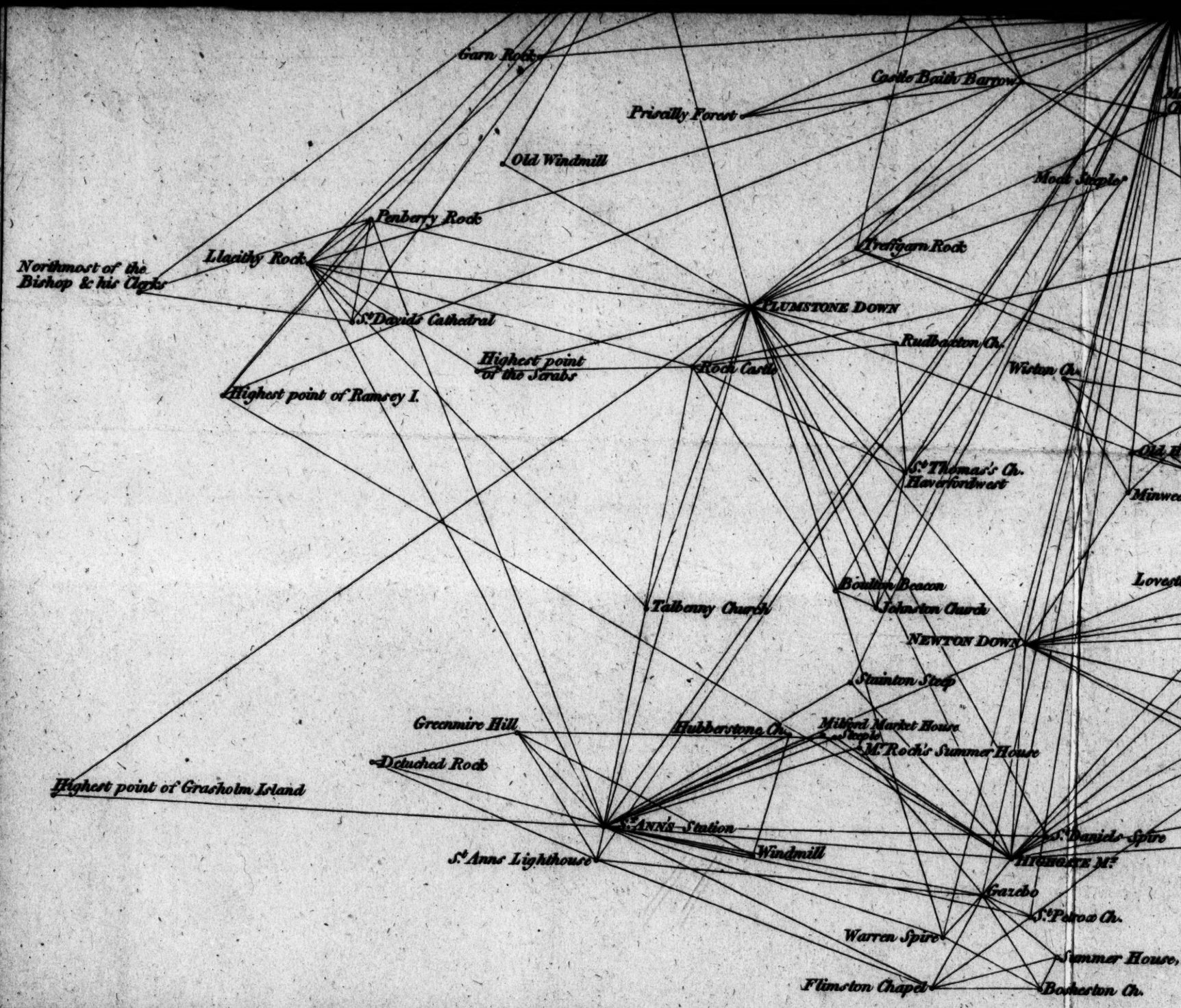
Vawr

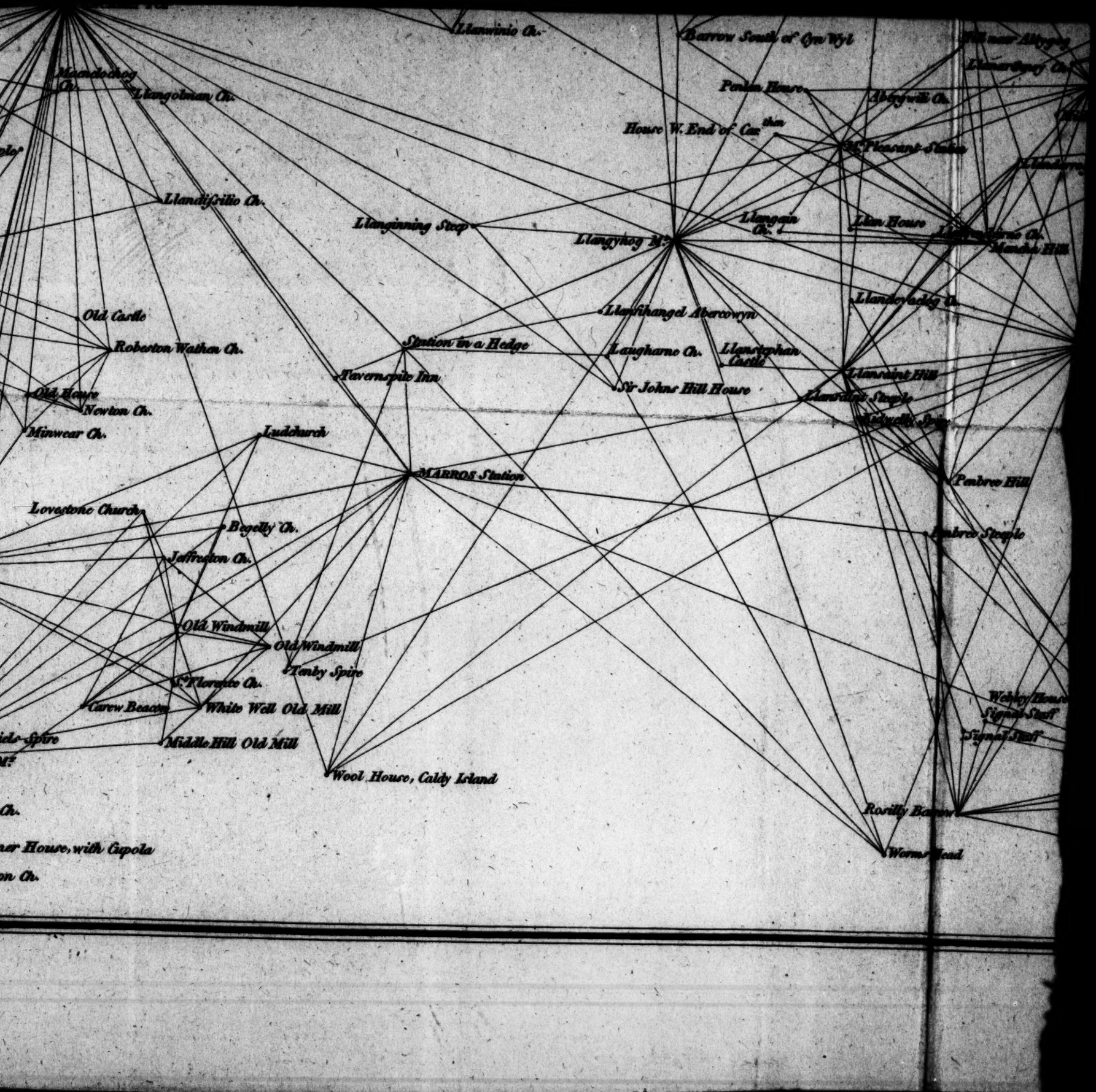
MARGAM DOWN

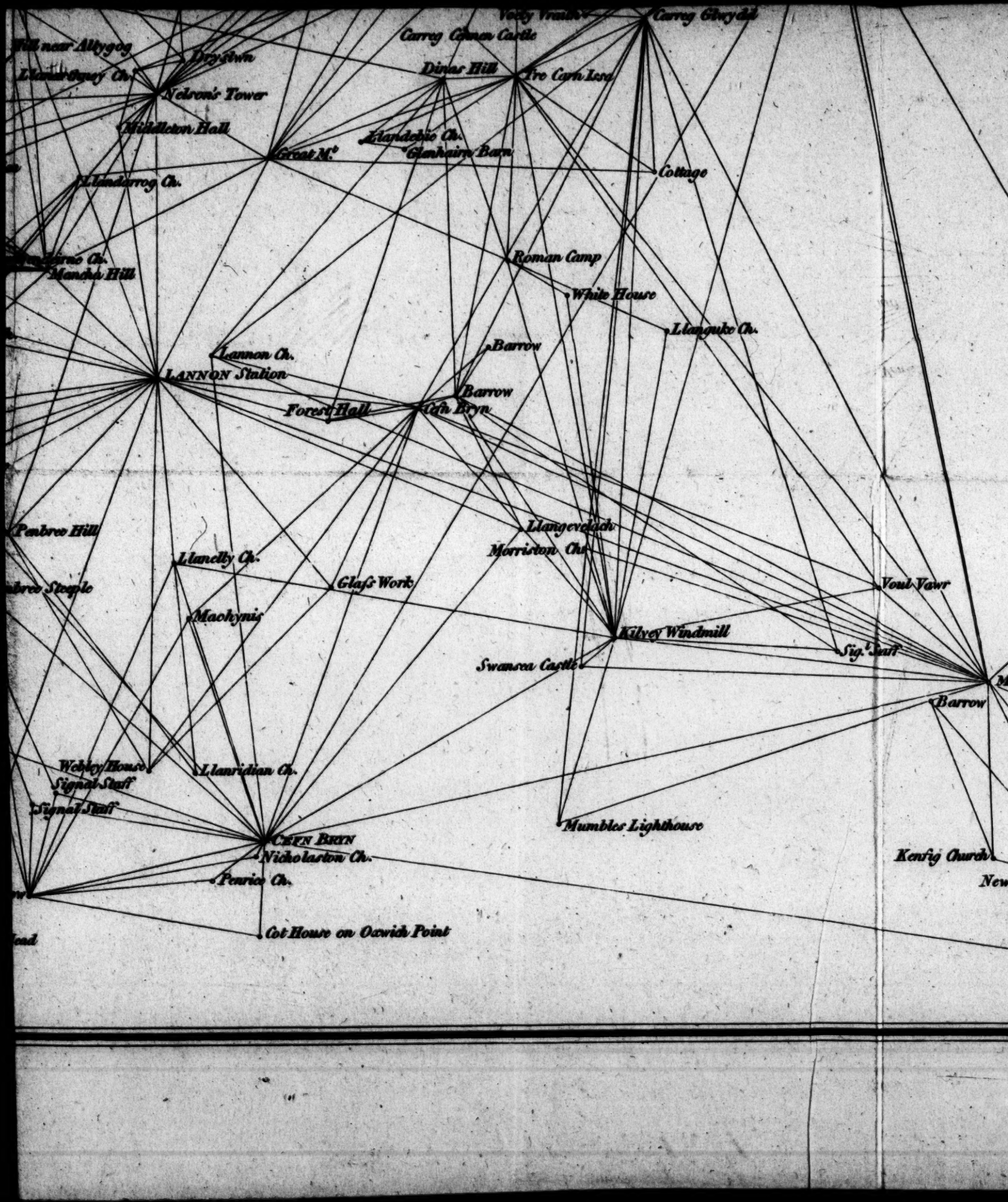
Barrow

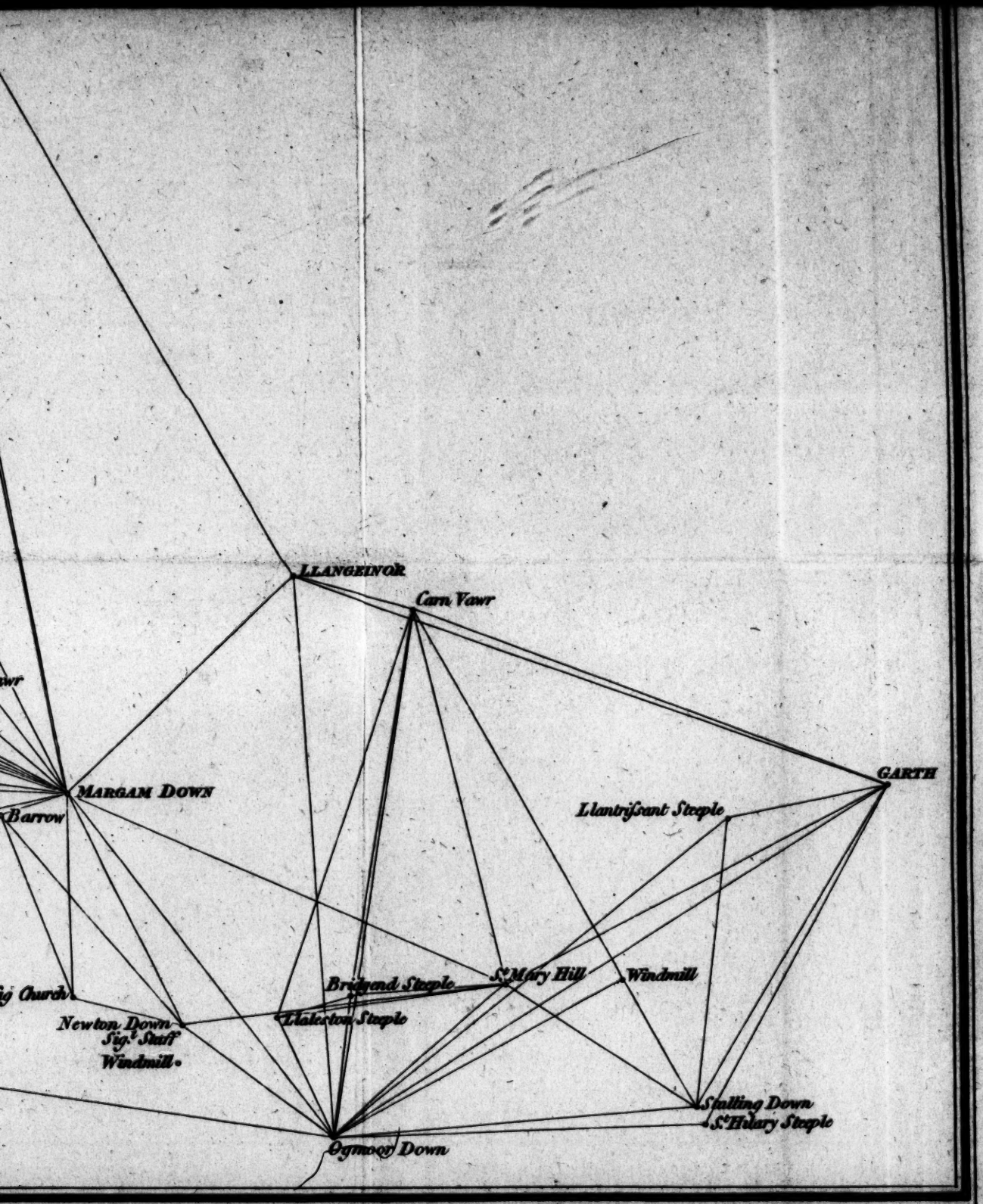
GARTH

Llantrisant Steeple


Garn Rocks
Castle Braith Barrow
Prisally Forest
Old Windmill
Mock Temple
Penberry Rock
Trefigarn Rock
Llacithy Rock
Northmost of the Bishop & his Clerks
St. Davids Cathedral
PLUMSTONE DOWN
Rudbaxton Ch.
Highest point of the Scrabs
Rock Castle
Wiston Ch.
Highest point of Ramsey I.
St. Thomas's Ch. Haverfordwest
Boulston Beacon
Talbenny Church
Johnston Church
NEWTON DOWN
Stainton Steep
Greenmire Hill
Hubberstone Ch.
Milford Market House Steeple
M.r Roch's Summer House
Detached Rock
Highest point of Grasholm Island
St. ANN'S Station
St. Daniels Spire
Windmill
St. Anns Lighthouse
HIGHGATE M.r
Gazebo
St. Petrox Ch.
Warren Spire
Summer House
Flimston Chapel
Bosheston Ch.


Llanwinio Ch.
Barrow South of Gwr Wyl
Mandochog Ch.
Llangolman Ch.
Penlan House
Abergwili Ch.
House W. End of Carthin
St Pleasant Station
Llandisilio Ch.
Llanginning Steep
Llangynog Mr
Llangan Ch.
Llan House
Llandovadog Ch.
Old Castle
Llanfihangel Abercowyn
Roberton Wathen Ch.
Station in a Hedge
Laugharne Ch.
Llanstephan Castle
Tavernspite Inn
Llansaint Hill
Sir Johns Hill House
Old House
Newton Ch.
Minwear Ch.
Luddarch
MARROS Station
Pembroe Hill
Lovestone Church
Begelly Ch.
Pembroe Steeple
Jeffreston Ch.
Old Windmill
Old Windmill
Tenby Spire
St Florence Ch.
Carew Beacon
White Well Old Mill
Middle Hill Old Mill
Wool House, Caldy Island
Rosilly Barrow
Worms Head


Carreg Gwyddil
Carreg Cennen Castle
Dinas Hill
Tre Carh Lesd
Till near Alltygog
Dryslwyn
Nelson's Tower
Middleton Hall
Great Mt
Llandebie Ch.
Glanhairy Barn
Cottage
Llandarrog Ch.
Roman Camp
White House
Llangyke Ch.
Manche Hill
Barrow
Llannon Ch.
LLANNON Station
Barrow
Forest Hall
Cefn Bryn
Pembrey Hill
Llangevelach
Morriston Ch.
Llanelly Ch.
Glass Work
Voul Vawr
Machynis
Kilvey Windmill
Sig. Staff
Swansea Castle
Barrow
Welsh House
Llanridian Ch.
Signal Staff
Signal Staff
Mumbles Lighthouse
CEFN BRYN
Nicholaston Ch.
Kenfig Church
Penrice Ch.
Cot House on Oxwich Point


LLANGEINOR
Carn Vawr
GARTH
MARGAM DOWN
Barrow
Llantrisant Steeple
St Mary Hill
Windmill
Bridgend Steeple
Llaleston Steeple
Newton Down
Sig.l Staff
Windmill
Stalling Down
St Hilary Steeple
Ogmoor Down

Lynn, Old Tower

Tinley S.t Lawrance

Downham

Littleport

Upwell Spire

Witney Steeple

Wisbich

Ely Min

Coveney

Parsons Drove

Wentworth

Witcham

March Spire

Sutton

Doddington

Chatteris Spire

Puttocks Bridge

Benwick Chapel

Thorney Abbey

Somersham

Crowland Abbey

Wheat Sheaf Inn

Whittlesea Spire

Warboys Spire

Ramsey Step.

St Ives Spire

Houghton Mill

Peterboro'

Huntingdon

Yaxley Steeple

Cannington

Stitton Steeple

Scale of Miles Four

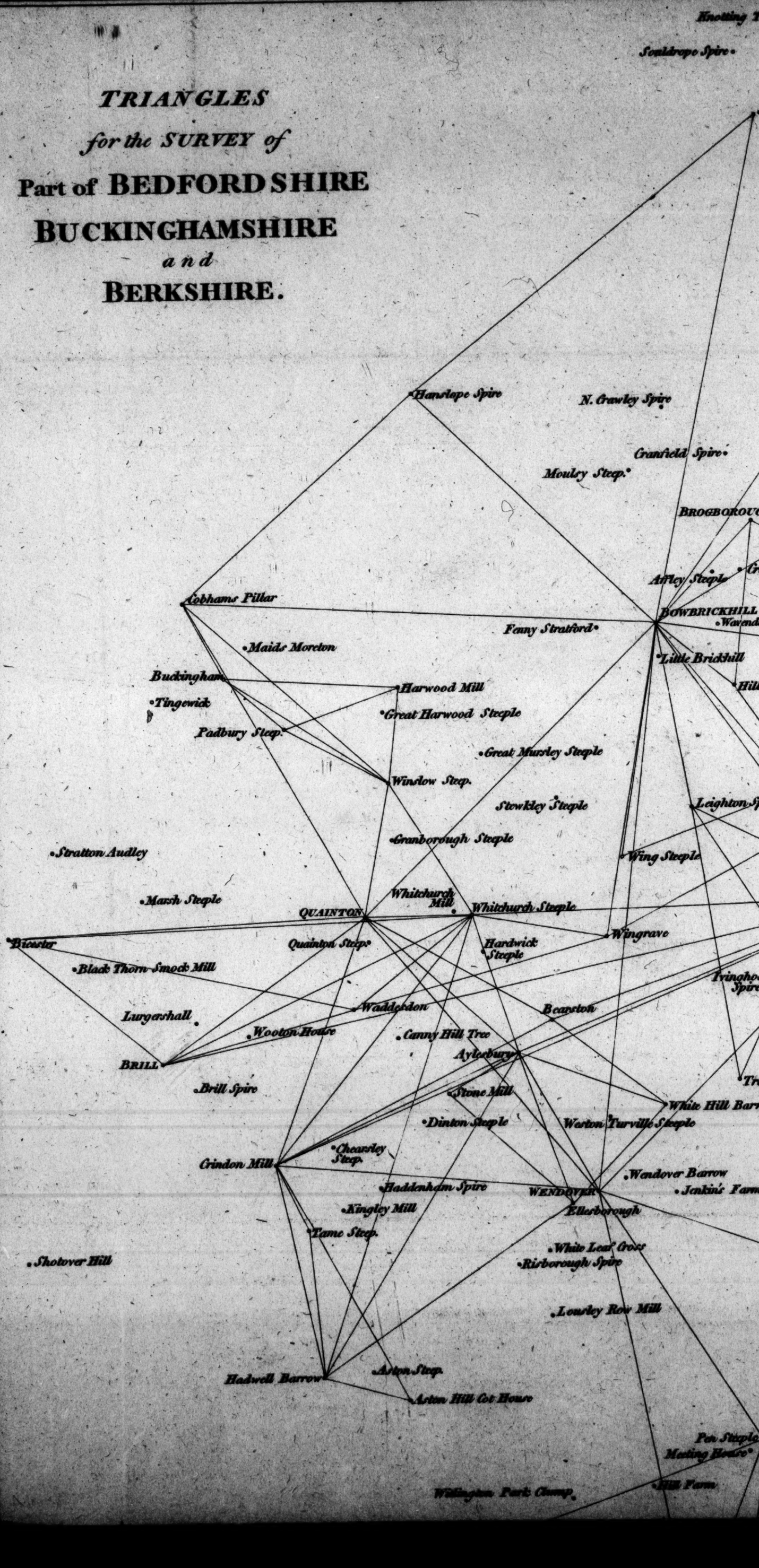
Furlongs 1 2 3 4 5

TRIANGLES
for the SURVEY of
CAMBRIDGESHIRE.

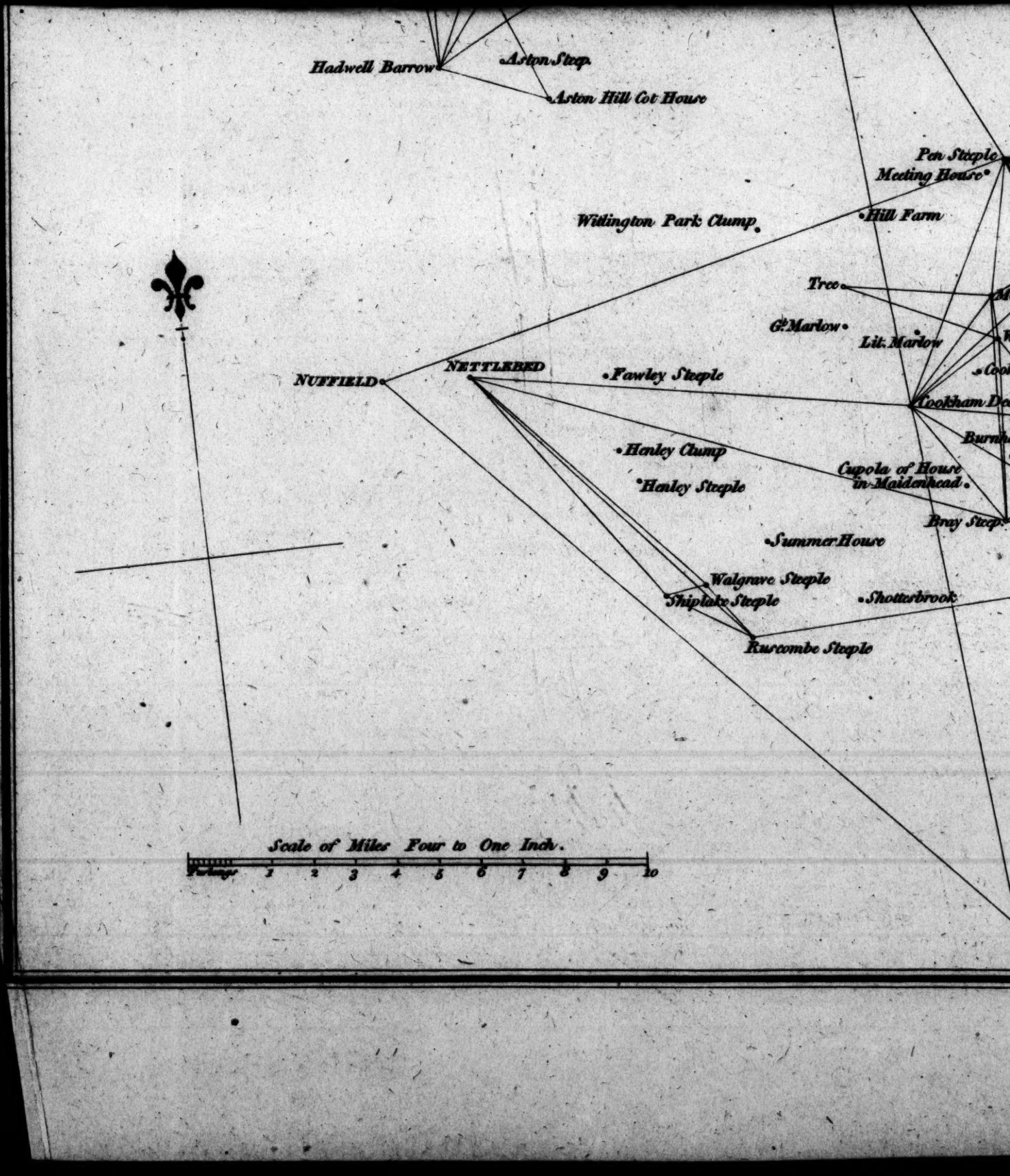
BRANDON
Mildenhall
Isleham
NEWMARKET
Fordham
Soham
Ely Minster
Stretham
Burwell Spire
Exning Steep.
Swaffham
Brinkley
Weston Colville
Wratting Mill
Shudy Camps Steeple
BALSHAM
Balsham Steeple
Bottisham Steep.
Gt.
Willbraham
Gunner Hill Thorn
Linton Mill
Waterbeach
Haddenham
Northy
Land Beach Spire
Cottenham Spire
Gog Magog Hill
Chesterton
Histon
Gt. St. Mary's Cambridge
Gt. Shelford
Willingham
Oakingham
Trumpington
Granchester
Maggotr Mount
Thriplow
Blunteham
MADDINGLY
Coton Spire
Swavesey Steep.
Foulmire Spire
Chapel Bush
Heydon Steeple
Hardwick Spire
Boxworth
Chishall Steeple
Meldreth Spire
Orwell Pole
Melbourn Steep.
Ivves Spire
Lea Stanton
ORWELL
Orwell Steep.
Ash Tree
Lea Ash Tree.
Bourne Spire
L.d Hardwicke Summer House
Royston Steep.
Gibbet.
Caxton Steep.
Bassingbourn
Croydon Steeple
ROYSTON
Kings Bush
Yelling Spire.
Elmsley Spire
Guildford Morden

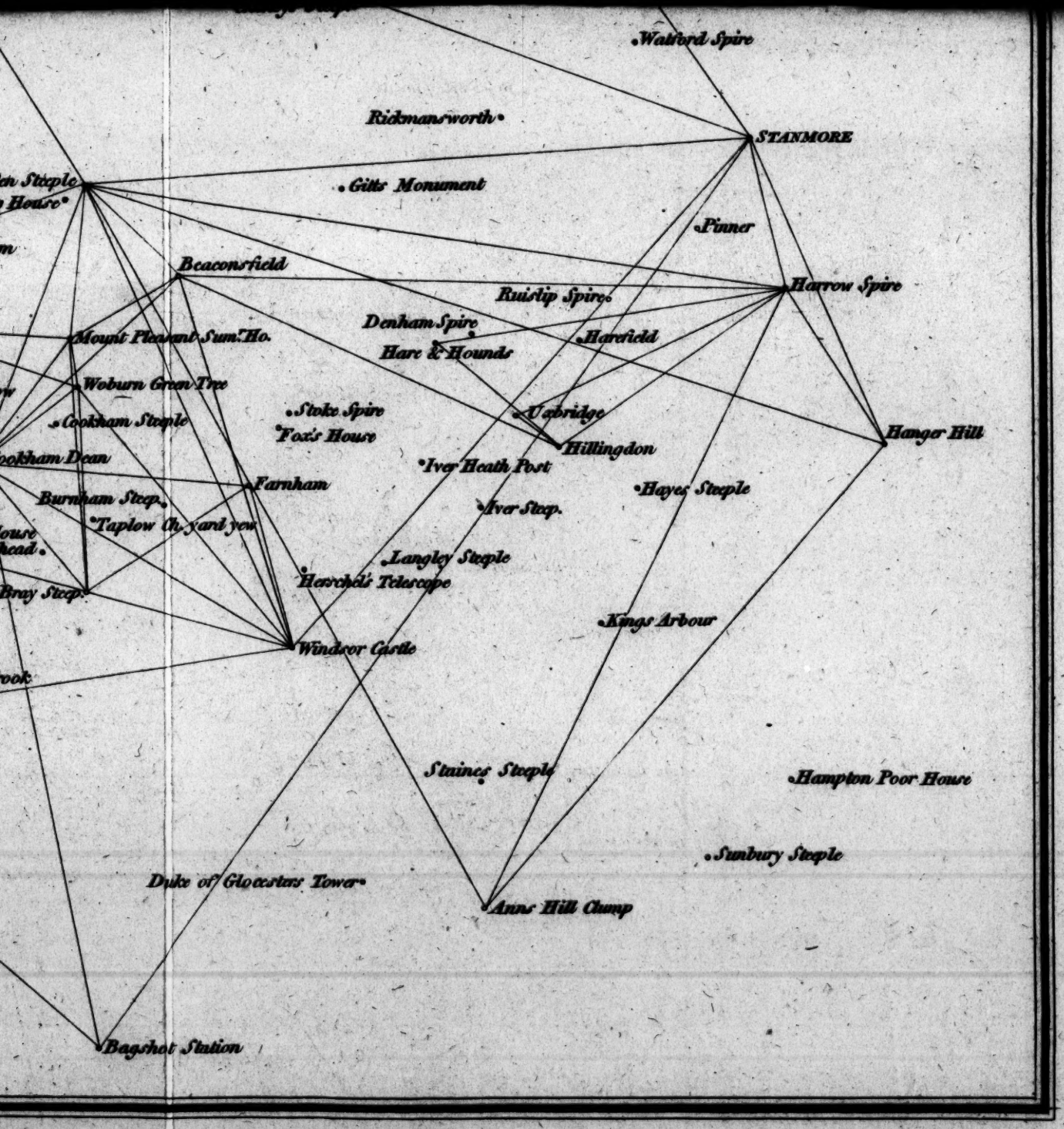
Miles Four to One Inch.
4 5 6 7 8 9 10 11

TRIANGLES
for the SURVEY of
Part of BEDFORDSHIRE
BUCKINGHAMSHIRE
and
BERKSHIRE.



Knotting Tree
Keysoe Spire
St. Neots
Colmworth Spire
Sharnbrook Spire
Pavenham Spire
Ravensden Steeple
Renhold Steep
Everton Steeple
Blenheim
St. Pauls Bedford
Northill Steeple
Biggleswade
Wooten Spire
Henlow Steeple
Malden Steeple
LIDLINGTON
Meppershall Steeple
Flitton Steeple
Selvoe Steeple
W. Garden Obelisk
Crawley Steeple
Shallington Steeple
Flitwick Steeple
Wavendon
Westoning Steeple
Harlington
LILLEYHOE
Hill Farm
Stewkley Steeple
Tuddington Steeple
Clay Hill Bush
Sundon Mill
Chalgrave Steeple
Leighton Spire
Kensworth Steeple
Luton
Kensworth Station
Ivinghoe Hill
Ivinghoe Spire
Crawley Clump
Lit. Gaddesdon Steeple
Gaddesdon Place
Tring
St. Peters St. Albans
Bovington Lodge
Abbots Langley
Cheneys Steep
Watford Spire
Rickmansworth
STANMORE
Gitts Monument
Pinner
Beaconsfield
Harrow Spire


Hadwell Barrow
Aston Step.
Aston Hill Cot House
Pen Steple
Meeting House
Hill Farm
Witlington Park Clump
Tree
Gt. Marlow
Lit. Marlow
NUTFIELD
NETTLEBED
Fawley Steple
Henley Clump
Henley Steple
Cupola of House in Maidenhead
Bray Step.
Summer House
Walgrave Steple
Shiplate Steple
Shotterbrook
Ruscombe Steple
Scale of Miles Four to One Inch.
Furlongs 1 2 3 4 5 6 7 8 9 10


Watford Spire
Rickmansworth
STANMORE
Gitts Monument
Pinner
Beaconsfield
Harrow Spire
Ruislip Spire
Denham Spire
Harefield
Hare & Hounds
Mount Pleasant Sum.r Ho.
Woburn Green Tree
Stoke Spire
Uxbridge
Fox's House
Hillingdon
Hanger Hill
Iver Heath Post
Farnham
Hayes Steeple
Burnham Steep.
Iver Steep.
Taplow Ch. yard yew
Langley Steeple
Herschel's Telescope
Kings Arbour
Windsor Castle
Staines Steeple
Hampton Poor House
Sunbury Steeple
Duke of Glocestars Tower
Anns Hill Clump
Bagshot Station